

408-820-5411



# 2005-2006 CATALOG

TUBES \* PARTS \* BOOKS \* SUPPLIES



# HAVE YOU VISITED OUR WEBSITE?

Check it out for our complete product listing:

**WWW.TUBESANDMORE.COM**



## Policies and Guarantees

We believe we provide competitive and fair pricing while maintaining the quality and integrity of our products. We feel that we can save you money by providing you with a reliable and timely source for your electronic component needs.

We charge a handling fee of \$2.50 on each order. We have a \$10.00 minimum order requirement. See page 112 for ordering & shipping info.

Due to the nature of the types of products we supply, all prices and availability are subject to change. While we try to stock everything we catalog, we cannot guarantee 100% availability. If an ordered item is not in stock and we expect to have it again (excluding NOS tubes and surplus goods), it will be back ordered and so noted on your invoice unless otherwise requested. It will be invoiced and shipped when it becomes available. Shipping/handling charges will be adjusted so that you are not penalized by the additional cost of making two shipments. If an item is ordered that cannot be back ordered or we cannot insure availability, it will be cancelled from the order and so noted on the invoice. If an item has -NLA- (no longer available) in the description on the invoice, it means we are no longer able to provide it.



Tube people designs on catalog covers  
by Yvonne Campanella.

**Warning! Vacuum tubes, transformers, capacitors, amplification circuits and other products listed in this catalog operate at high voltages that can cause permanent injury, disability or death. Vacuum tubes operate at high temperatures that can cause severe burns. Never attempt to repair, construct, alter, test, work on or touch electronic equipment unless you are trained or otherwise qualified to do so. Likewise, never remove a protective cover from electronic equipment unless you are trained or otherwise qualified to do so.**

**Warranty Disclaimer:** Our guarantee represents the consumer's exclusive remedy for a defective product. Antique Electronic Supply expressly disclaims all other warranties, express or implied, for the products listed in this catalog.

**Limitation on Liability:** Antique Electronic Supply shall not be liable for any indirect or consequential damages, including, but not limited to, personal injury or loss of income, arising out of the purchase or use of a product listed in this catalog, and in no event shall our liability exceed the price of the product.

**Our Guarantee:** All items in our catalog are guaranteed to meet your satisfaction or they may be returned within 10 days for exchange or credit, providing the item is in resellable condition. Any items that have leads cut, evidence of soldering or other sign of installation and/or use cannot be returned unless the product is defective. **Please note, opened software and cut-to-order items such as grill cloth, tolex, piping and wire, cannot be returned; defective software is returnable for exchange only.** Please check and/or test your purchases upon receipt, even if the items are a back up set for future use, and notify us of any problems within the warranty period.

All new tubes (except horizontal amplifier tubes, also known as "linear or sweep tubes") are guaranteed to meet manufacturers specifications for 90 days, except for breakage or when damaged by operation outside manufacturers' specified ratings. All used tubes are guaranteed to

meet minimum industry standards for used tubes and are guaranteed for 30 days. The same exceptions and conditions, as noted above for new tubes, apply to used tubes.

**Linear/Sweep tubes** are guaranteed for 10 days, except for breakage or damage caused by operation outside the tube manufacturers' specified ratings. Please check all linear/sweep tubes upon receipt. If there is a problem, please notify us immediately. After contacting us, we will take the tube back for evaluation by our technician. We will notify you with a decision about replacement or credit after the evaluation. If the linear/sweep tubes are out of the 10-day warranty period we will not take them back under any circumstances.

Should it be necessary to return merchandise for exchange or credit, e-mail [custservice@tubesandmore.com](mailto:custservice@tubesandmore.com) or call with a reason for the return. Customer service is available by phone from 9am-11am and 2pm-4pm, Mon.-Fri. Upon approval, you will be given a Return Authorization number (RA#). No returns should be made without contacting Customer Service for authorization.

All returns should be sent promptly; we must receive all returns within 30 days or the RA number will become invalid. The RA number must be placed on the outside of the package being returned in order to assure that your return is handled in a timely manner.

We reserve the right to charge a restocking fee when no evidence of product failure exists if merchandise is returned after the 10-day period.

**Dealers and Resellers:** We suggest you test all tubes or any type of electrical product upon receipt, as our warranty does not extend beyond you and ends when you resell the item.

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## JJ/Tesla

Made in the Slovak Republic

<b>E34L</b>		<b>\$10.25</b>
<b>E34L-BLUE</b>	Blue Glass	<b>12.50</b>
<b>EL34</b>		<b>10.15</b>
<b>EL84/6BQ5</b>		<b>7.95</b>
<b>ECC803-S</b>	Spiral Filament	<b>13.95</b>
<b>ECC99</b>		<b>13.25</b>
<b>KT88</b>		<b>35.95</b>
<b>KT88-BLUE</b>	Blue Glass	<b>39.95</b>
<b>5AR4/GZ34</b>		<b>13.95</b>
<b>6L6GC</b>		<b>12.95</b>
<b>6V6-S</b>	Spiral Filament	<b>10.50</b>
<b>12AT7/ECC81</b>		<b>8.95</b>
<b>12AU7/ECC82</b>		<b>8.95</b>
<b>12AX7-S/ECC83</b>	Spiral Filament	<b>9.50</b>
<b>12DW7/ECC832</b>		<b>9.95</b>
<b>300B</b>		<b>89.95</b>
<b>6922/E88CC</b>		<b>9.95</b>
<b>7027A</b>		<b>18.95</b>
<b>7591-S</b>	Spiral Filament	<b>18.95</b>



TUBES

## Tube Matching

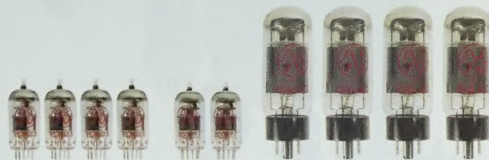
Current manufacture output tubes can be supplied in matched pairs and quads at \$1.25 per tube. We match transconductance and plate current.

## Tube Sets for Fender® amps

Tube sets include power and pre-amp tubes only. Rectifier tubes vary by year of model; they also tend to last longer, and do not need to be replaced as frequently. Power tube matching is included in tube set pricing.

For Fender Twin Reverb® or Showman®

All JJ brand tubes	Quantity		
<b>12AX7-S</b>	4		
<b>12AT7</b>	2		
<b>6L6GC</b>	1 Matched Quad		
		<b>T-FWIN</b>	<b>\$99.95</b>



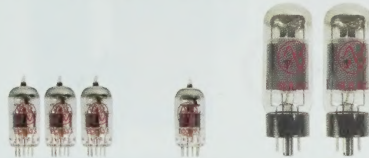
For Fender Super Reverb®, Pro Reverb® or Bandmaster Reverb®

All JJ brand tubes	Quantity		
<b>12AX7-S</b>	4		
<b>12AT7</b>	2		
<b>6L6GC</b>	1 Matched Pair		
		<b>T-FSUPER</b>	<b>\$77.50</b>



For Fender Bassman® and Bandmaster®

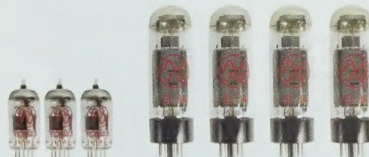
All JJ brand tubes	Quantity		
<b>12AX7-S</b>	3		
<b>12AT7</b>	1		
<b>6L6GC</b>	1 Matched Pair		
		<b>T-FBASSMAN</b>	<b>\$59.95</b>



## Tube Sets for Marshall™ amps

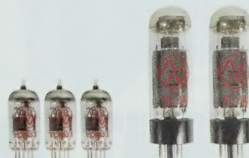
For Marshall JMP™ 100W and JCM 800™ 100W

All JJ brand tubes	Quantity		
<b>12AX7-S</b>	3		
<b>EL34</b>	1 Matched Quad		
		<b>T-M100</b>	<b>\$64.95</b>



For Marshall JMP™ 50W and JCM 800™ 50W

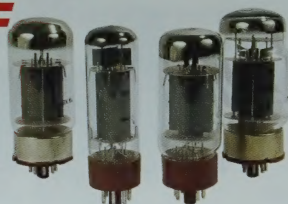
All JJ brand tubes	Quantity		
<b>12AX7-S</b>	3		
<b>EL34</b>	1 Matched Pair		
		<b>T-M50</b>	<b>\$45.95</b>





## Tube Matching

Current manufacture output tubes can be supplied in matched pairs and quads at \$1.25 per tube. We match transconductance and plate current.



## Winged C / SED

Made in the JSC Svetlana, St. Petersburg, Russia factory

EL34	\$14.95
KT88	37.95
6L6GC	14.95
6550C	25.95



## Valve Art

Premium Chinese brand

EL34B	\$9.95
KT66	19.95
KT88	22.95
KT100	28.95
2A3	24.95
5AR4/GZ34	11.95
300B	69.95
350B	22.95
845	39.95
6550A	19.95



## Ei

Made in the former Yugoslavia

EL84	\$7.95
EL84*	Gold Elite 10.95
KT90	34.95
6CA7/EL34	"Big Bottle" 13.95
6CG7	9.95
6DJ8*	Gold Elite 9.95
12AT7	8.95
12AT7*	Gold Elite 10.50
12AU7	8.95
12AU7*	Gold Elite 10.50
12AX7	8.95
12AX7*	Gold Elite 9.95
12BH7A	10.95
12DW7*	Gold Elite 12.95

\*Ei Elites are gold pinned for optimum electrical contact.



## Groove Tubes

E34L-S	Matched pair	\$39.95
EL84-S	Matched pair	15.95
KT66-HP	Matched pair	47.95
6L6-S	Matched pair	49.95
6V6-C	Matched pair	31.95
12AX7-C	Each	14.95
12AX7M	Each, Reissue of the original Mullard design	24.95



# CURRENT PRODUCTION

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## Fender®

EL84	Matched Pair	\$14.95
5AR4		15.95
5U4		15.95
5Y3		9.95
6L6	Matched Pair	26.95
6V6	Matched Pair	18.95
12AT7		8.95
12AX7		9.95
6550	Matched Pair	84.95

## Marshall™

EL34	Matched Pair	\$69.95
12AX7	3-Pack	39.95
5881	Matched Pair	54.95

## Ruby

EL34B-STR		\$13.95
5AR4-C/GZ34		11.45
5U4G-C		11.45
6L6GC-M-STR		12.95
6V6GT-BC		10.25
12AX7A-C4		9.95
6550A-STR		24.95

## Chinese (Sino)

Made in China

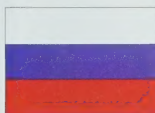
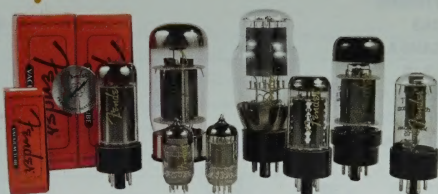
5AR4/GZ34		\$10.95
5U4G		9.95
6SN7GT	Brown Base	8.95
6V6GT		7.95
12AT7		6.95
12AU7		6.95
12AX7		6.95
12AX7B	Silver Plate	7.95
807		9.95
811A		12.75
812A		14.95
6146B		16.95

## Sovtek, EH and other Russian Tubes

Made in Russia

EL34	Electro-Harmonix	\$10.50
EL84	Sovtek	6.95
5AR4	Sovtek	12.95
5Y3GT	Sovtek	8.95
6L6WXT+	Sovtek	9.95
6SN7GT	Russian	5.95
6V6GT	Electro-Harmonix	8.95
12AX7	Electro-Harmonix	9.95
12AX7LPS	Sovtek	10.95
5881	Sovtek	9.95
5881	Marked 6N3C-E; same as above, but un-branded	8.95
5881WXT	Sovtek	10.95
7199	Sovtek	15.95
7591A	Electro-Harmonix	19.95

Fender®



TUBES

TUBES

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## N.O.S. TUBES

Unless noted otherwise, all N.O.S. tubes are of U.S. or Western European origin and are mixed brands.

### Triodes

2A3	\$74.80
6AN8-A	6.95
6B4G	46.95
6BK4C/6EL4A	42.50
6C4/EC90	5.50
6KD8/6U8A	5.85
45	88.00
76 (ST)	16.00

### Rectifiers

5AR4/GZ34	\$85.25
5R4GY-A-B	14.25
5U4GB/5AS4A	15.50
5Y3GT	11.65
6V4/EZ80	10.25
35W4	7.50
35Z5GT	5.95
80 (ST)	24.90
83	28.95

### Dual Triodes

6CG7/6FQ7	\$12.65
6EU7	22.65
6SN7GT-B	19.95
12AT7/ECC81	9.90
12AU7-A/ECC82	16.60
12AU7-A (RCA)	27.95
12AX7-A	21.95
12AY7	16.50
12BH7A	21.70
12DW7/7247	18.95
12SN7GT-A-B	8.60
396A/2C51 (Western Electric)	27.75
5687 (ECG JAN)	4.20
5691 (red base)	48.95
5692 (red base)	82.50
5751	16.50

### Beam Power Amplifiers

6JE6C/6LQ6	\$51.95
6L6GC	54.95
50L6GT	7.40
807	17.80
5881/6L6WGB	30.60
6146B/8298A	33.75
6973	54.95
7027-A	60.50
7591A	67.50

### Pentodes

6AU6A/EF94	\$5.50
6BA6/EF93	5.10
12AU6	3.85
12BA6/HF93	4.40
12BV7/12BY7-A	12.35
5654/6AK5W	3.95
6267/EF86	37.95
EL84/6BQ5	23.25

### Tetrode

6V6GT	\$19.95
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### Tube Selection

Specific brand, construction or testing can be supplied for an additional \$1.00 per tube.



# NEW OLD STOCK

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# N.O.S. TUBES

## Vacuum Tubes

We have over 3,000 tube types, both new old stock (NOS) and currently manufactured tubes which are available for immediate shipment. Many types have equivalent numbers which we can cross reference. Also available are many used tubes in types that have become scarce or expensive. All used tubes have been tested by us and are guaranteed to meet or exceed the minimum industry standards for used tubes. All used tubes have been boxed by us in clean white boxes.

If you do not find the tube type you need listed, please visit our website at

[www.tubesandmore.com](http://www.tubesandmore.com)



Many tube types are available in different envelope styles and are equivalent electrically. For example, 6A8 is metal, 6A8G is ST shaped large glass and 6A8GT is tubular shaped small glass. See above illustration for tube styles.

### PRICES SHOWN ARE FOR CURRENT STOCK AND ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Because most tube types are no longer manufactured, quantities available may be limited. Price and availability of tubes with "See Web" instead of price will be quoted at the time of inquiry. Tubes are designated this way when there is a low supply or when there are large fluctuations in the market price. Written quotes are good for 15 days. Special quantity pricing is available on some types upon request.

We also carry many tube types used; prices are generally about 50% - 60% of the new tube price. Check our web site for current availability.

## Tube Selection

Specific brand, construction or testing can be supplied for an additional \$1.00 per tube.

01A (ST)	51.70	1AK4	6.20	1F6	3.70	1N5GT/1P5GT	4.30	2A6	6.90
0A2/150C2	4.70	1AK5	See Web	1G3GTA	See 1B3GT	1N6G	6.20	2A7	9.10
0A2WA	See 6626	1AU2	0.50	1G4GT	9.90	1P5GT	See 1N5GT	2A22	0.50
0A3/VR75	5.90	1AU3/1N2A	0.50	1G6G	See Web	1P21	8.00	2B7	3.60
0B2	5.60	1B3GT/1G3GTA	3.90	1H2	0.50	1P28	47.10	2C22/7193	7.10
0B2WA	See 6627	1B4	See 1B4T/951	1H4G	6.90	1P39	See Web	2C34/RK34	See Web
0B3/VR90	3.10	1B4P	3.70	1H5GT-G	3.70	1P41/924	2.30	2C36	13.20
0C2	5.90	1B4T/951	6.60	1HM4 (ballast)	2.50	1R5/DK91	6.60	2C39A	See 7289
0C3-A/VR105	5.30	1B7GT	3.20	1J1 (ballast)	2.50	1RK41	See 1BK2	2C39B	See 7289
0D3-A/VR150	4.70	1B22	14.50	1J6G	7.90	1S4	2.90	2C43/464A	24.10
0E3/85A1	See Web	1B24	See Web	1L4/DF92	2.60	1S5/DAF91	2.90	2C51	See 396A
0G3/85A2	3.00	1B85	See Web	1L6	49.40	1T4/DF91	3.50	2C51W	See 5670
0Y4	2.80	1BH2A	0.50	1LA6	5.30	1T5GT	2.60	2D21/PL21	2.90
0Z4-A	3.50	1BK2/1RK41	0.50	1LB4	See Web	1U4	5.40	2E22	36.30
1A3	1.80	1BX2/1X2-B-C	2.40	1LC5	3.50	1U5	7.00	2E25	6.80
1A4P	3.70	1C7G	3.50	1LC6	3.70	1V/6Z3	6.50	2E26	6.00
1A5G	6.70	1C21	17.40	1LD5	3.80	1V2	2.60	2E31	4.90
1A5GT	2.60	1D8GT	3.00	1LE3/1LF3	5.60	1V6	5.10	2E32	See Web
1A7GT	2.90	1DK27	0.50	1LF3	See 1LE3	1X2-B-C	See 1BX2	2E36	See Web
1AD4	3.30	1E5G	5.20	1LG5	3.70	2-01C	28.50	2E42	7.20
1AE4	5.60	1E5GP	3.50	1LH4	2.90	2A3	74.80	2EA5/2EV5	0.50
1AF5/1AH5	3.20	1E7G	4.80	1LN5	4.10	2A3 (RCA)	See Web	2EV5	See 2EA5
1AG4	4.50	1E7GT	5.60	1M3/DM70	See Web	2A3 (Valve Art)	24.95	2V3G	2.40
1AH5	See 1AF5	1F5G	3.20	1N2A	See 1AU3	2A5	15.30	2X2A/2Y2/879	1.80

The information on tubes in this catalog is for sales information ONLY. If you are interested in selling tubes to us, please call, fax or e-mail us at: [tubebuyer@tubesandmore.com](mailto:tubebuyer@tubesandmore.com) to request a current bid list.





Check our website: [www.tubesandmore.com](http://www.tubesandmore.com) for a complete listing of our NOS tubes.

2Y2	See 2X2A	4CX250FG	See Web	5R4WGA-B-Y (Chatham)	6AH6	3.20	6B5	20.20
3-4 (ballast)	12.95	4CX250K/8245	See Web		6AH6WA	See 6485	6B6G	See Web
3-14 (ballast)	2.50	4CX300A/8167	See Web	5T4	6AH7GT	7.70	6B7	5.80
3-400Z/8163	See Web	4CX300Y/8561	See Web	5U4 (Fender)	6AJ5	2.90	6B8	3.60
3-500Z	See Web	4CX350A/8321	See Web	5U4G/5AS4	6AJ8/ECH81	6.90	6B10	2.70
3A5/DCC90	3.90	4CX350F/8322	See Web	5U4G (China)	6AK4	5.80	6BA3	0.50
3AV6	See Web	4CY5	0.50	5U4GB/5AS4A	6AK5/EF95	4.20	6BA6/EF93	5.10
3B2	0.50	4GS8	0.50	5U4G-C (Ruby)	6AK5W	See 5654	6BA6W	See 5749
3B5GT	See Web	4HK5	0.50	5U4WG	6AK6	3.70	6BA7	7.90
3B25	6.00	4JC6A/4JD6	2.70	5V3A	6AK7	See 6AG7	6BA8-A	4.50
3B28	30.50	4JD6	See 4JC6A	5V4G	6AK8/EABC80	7.80	6BC4	6.00
3BA6	1.80	4JH6	See 4BZ6	5V4GA	6AL5/6EB5	3.30	6BC5/6CE5	1.80
3BM2	0.50	4LJ8	5.00	5V6GT	6AL5W	See 5726	6BC8/6BZ8	4.50
3BN6	3.30	4MP26	0.50	5W4	6AL7GT	3.70	6BD4-A	See Web
3BU8/3GS8	1.30	4PR400A	See Web	5W4GT	6AL11	5.00	6BD6	See Web
3BY6	1.60	4X150A/7034	46.40	5X4G	6AM6/EF91	4.20	6BE6/EK90	4.60
3BZ6	3.10	5AM8	1.80	5X8	6AM8A	5.50	6BE6W	See 5750
3C4/3E5/DL96	4.50	5AN8	1.80	5Y3 (Fender)	6AN4	4.30	6BF5	3.40
3C6/XXB	3.50	5AR4/GZ34	85.25	5Y3G	6AN5WA	2.70	6BF6/6BU6	2.70
3C45/6130	56.90	5AR4/GZ34 (China)	10.95	5Y3GT	6AN6	2.60	6BF7	4.40
3CB6/3CF6	1.80	5AR4 (Fender)	15.95	5Y3GT (Sovtek)	6AN8-A	6.95	6BG6G-GA	8.00
3CF6	See 3CB6	5AR4 (JJ)	13.95	5Y3WGT	6AQ4/EC91	11.40	6BH6/E90F	4.50
3CS6	1.80	5AR4 (Sovtek)	12.95	5Y3WGTB	6AQ5-A/6HG5	5.60	6BH8	See 6AU8-A
3CY5	0.50	5AR4/GZ34 (Valve Art)		5Y4G	6AQ5W	See 6005	6BJ6/E99F	3.40
3D6/1299	9.60		11.95	5Y4GA	6AQ6	2.70	6BJ7	2.50
3D21WB	See 7403	5AR4-C (Ruby)	11.45	5Y4GT	6AQ8/ECC85	16.30	6BJ8	4.00
3D22	See Web	5AS4A	See 5U4GB	5Z3	6AR5	8.90	6BK4-A-B	11.20
3DH3	0.50	5AU4/5V3-A	5.20	5Z4	6AR6	19.60	6BK4C/6EL4A	42.50
3DHH12	0.50	5AV8	0.50	6A3	6AR6WA	See 6098	6BK5	1.80
3DT6A	1.80	5AW4	4.40	6A3 (single plate)	6AR8	4.50	6BK6	See 6AT6
3E5	See 3C4	5AZ4	3.20		6AS5	1.80	6BK7-A-B	4.40
3E29	See 829B	5BC3-A	5.80	6A4	6AS6	1.80	6BL4	3.20
3EA5	0.50	5BK7-A	1.80	6A5	6AS6W	See 5725	6BL6	See Web
3FH5	1.60	5BQ7-A/5BZ7	1.80	6A5G	6AS7G/6520	12.00	6BL7GTA	8.90
3FQ5/3GK5	2.70	5BR8	See 5CL8A	6A6	6AS7G (Svetlana NOS)		6BL8/6LN8	5.50
3GK5	See 3FQ5	5BZ7	See 5BQ7A	6A7		24.95	6BM8	15.00
3GS8	See 3BU8	5C22/6279	199.00	6A8	6AS7GA	7.90	6BN4A	3.50
3GW5	0.50	5CL8-A/5BR8	1.80	6A8G	6AS8	1.80	6BN5/EL85	2.80
3HS8	0.50	5CM8	1.80	6A8GT	6AS11	4.50	6BN6/6KS6	4.00
3JC6A	0.50	5D21	39.80	6AB4/EC92	6AT6/6BK6	2.70	6BN8	7.80
3MP26	0.50	5D22	See 4-250A	6AB5/6N5	6AT8-A	3.30	6BN11	See Web
3Q4	See Web	5DH8	0.50	6AB6	6AU4GTA	5.40	6BQ5	See EL84
3Q5GT	4.00	5ES8	0.50	6AB7/1853	6AU5GT	5.50	6BQ6GTB/6CU6	1.60
3S4/DL92	3.50	5EU8	0.50	6AC5G	6AU6A/EF94	5.50	6BQ7-A/6BZ7	1.40
3V4/DL94	8.40	5EW6/5GM6	1.80	6AC5GT	6AU6WA	See 6136	6BR5/EM80	9.30
4-65A/8165	74.90	5FV8	See 5CL8A	6AC7/1852	6AU8-A/6BH8	4.30	6BR7	16.00
4-250A/5D22	See Web	5GM6	See 5EW6	6AD6G/6AF6GT	6AV5GA	6.20	6BR8-A/6FV8	2.20
4-400C/6775	See Web	5GX6/5HZ6	0.50	6AD7G	6AV5GT	3.90	6BS8	4.20
4AU6/4BA6	2.20	5GX7	0.50	6AD8	6AV6/EB9C1	3.00	6BU6	See 6BF6
4B32	See Web	5HA7	See Web	6AE5G/6AF5G	6AV11	5.30	6BUB/6KF8	1.80
4BE6	2.20	5HB7	0.50	6AE6G	6AW6	See 6AU6A/EF94	6BV8	5.30
4BQ7-A/4BZ7	1.80	5HG6	See 5GX6	6AE7GT	6AW8A	4.50	6BW4	3.40
4BS8/4BZ8	0.50	5HZ6	See 5GX6	6AF4A/6DZ4	6AX3	1.80	6BX6/EF80	See Web
4BX8	0.50	5JL6	0.50	6AF5G	6AX4GTB	1.80	6BX7GT	12.50
4BZ6/4JH6	2.70	5KZ8	0.50	6AF6G	6AX5GT	4.40	6BY5G	6.20
4BZ7	See 4BQ7A	5MK9	11.80	6AG5/EF96	6AX7	7.60	6BY5GA	3.70
4BZ8	See 4BS8	5R4GA	8.10	6AG5WA	6AX8	4.50	6BY6	4.00
4C35A	See Web	5R4GB	14.50	6AG6G/EL33	6AY3B	2.70	6BY7/EF85	3.20
4CX250B/7203	See Web	5R4GY-A-B	14.25	6AG7/6AK7	6AZ8	9.10	6BY8	2.70
4CX250F/7204	See Web	5R4WGA-B-Y	7.90	6AH4GT	6B4G	46.95	6BZ6/6JH6	5.70



# TUBES

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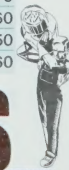


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6BZ7	See 6BQ7A	6CU8	1.80	6EM5	6.90	6H4-GT	14.40	6JZ8	5.00
6BZ8	See 6BC8	6CW4/6DS4	16.30	6EM7	See 6EA7	6H6	2.90	6K4A	3.50
6C4/EC90	5.50	6CW5/EL86	4.50	6EQ7	2.90	6H6G	13.50	6K5G	16.80
6C4WA	See 6100	6CX8/6JA8	4.00	6ER5/EC95	4.60	6H6GT	3.30	6K5GT	4.80
6C5	3.50	6CY5	4.70	6ES5	1.80	6HA5/6HM5	4.00	6K6G	See Web
6C5G	11.60	6CY7	3.30	6ES8/ECC189	6.30	6HB5	18.90	6K6GT	5.60
6C5GT	6.50	6CZ5	8.90	6EU7	22.65	6HB7	3.90	6K7	4.80
6C6	5.10	6D6	6.20	6EU8	1.80	6HD5	See Web	6K7G	5.70
6C7	See Web	6D8G	6.50	6EV7	4.30	6HF5	16.00	6K7GT	4.70
6C8G	3.20	6D10	7.00	6EW6	5.10	6HF8	4.40	6K8	5.20
6C10	21.90	6DA4-A/6DM4	2.40	6EW7	5.60	6HG5	See 6AQ5A	6K8G	See Web
6C30T (delay relay)	2.50	6DA5/EM81	See Web	6EX6	See 6CD6GA	6HJ8	2.70	6K8GT	6.50
6CA4/EZ81	See Web	6DA6/EF89	12.00	6EY5/6EZ5	5.30	6HL8	2.70	6K11/6Q11	10.00
6CA4 (Electro-Harmonix)		6DC6	7.30	6EY6	5.40	6HM5	See 6HA5	6KD6	47.20
	17.95	6DC8/EBF89	5.20	6EZ5	See 6EY5	6HQ5	See 6HA5	6KD8/6U8A	5.85
6CA5/6EH5	2.90	6DE6	1.80	6F5/H63	5.80	6HS5/6HV5A	7.90	6KE8	5.90
6CA7/EL34 (US)	86.90	6DE7	4.70	6F5G	22.60	6HS6	16.30	6KF8	See 6B8U
6CA7/EL34 (EI, big bottle)		6DGGGT/6W6GT	3.10	6F5GT	6.50	6HS8	See 6B8U	6KGG/EL509	27.20
	13.95	6DG7	See EM85	6F6	10.90	6HU6/EM87	6.20	6KH8/ECLL800	62.70
6CA7 (European) See Web		6DHH13	0.50	6F6G	26.80	6HU8/ELL80	34.80	6KM6	11.70
6CA7/EL34 (Mullard)		6DJ8/ECC88	10.20	6F6GT	15.30	6HV5A	See 6HS5	6KM8	2.40
	See Web	6DJ8/ECC88 (Amperex)		6F7	5.60	6HW8	7.30	6KN6	18.30
6CB5A	5.00	Bugle Boy	36.10	6F8G	9.70	6HZ5/6JD5	See Web	6KS6	See 6BN6
6CB6-A/6CF6	3.20	6DJ8 (EI Elite, gold pin)		6F17	0.50	6HZ6	2.70	6KT6	2.70
6CD3/6CG3	5.40		9.95	6FD7	1.80	6J4	2.60	6KT8	2.70
6CD6G/6DN6	6.00	6DJ8/ECC88 (RCA)	36.10	6FG6/EM84	7.30	6J5	5.80	6KV6-A	47.50
6CD6GA/6EX6	5.70	6DJ8/ECC88 (Telefunken)		6FH5	See Web	6J5G	23.40	6KX8/ECC808	See Web
6CD7/EM34	See Web		36.10	6FH8	11.80	6J5GT	10.30	6KZ8	3.60
6CE5	See 6BC5	6DK6	3.10	6FJ7	2.90	6J6A/ECC91	2.80	6L4	9.40
6CF6	See 6CB6A	6DL4/EC88	6.70	6FM8	2.40	6J6WA	See 6101	6L5G	5.60
6CG3	See 6CD3	6DL5/EL95	5.90	6FQ5A/6GK5	6.40	6J7/EF36	5.30	6L6	22.90
6CG7/6FQ7	12.65	6DM4	See 6DA4-A	6FQ7	See 6CG7	6J7G	6.50	6L6 (Fender, matched pair)	26.95
6CG7 (EI)	9.95	6DN3	See 6CM3	6FV8	See 6BR8A	6J7GT	5.90	6L6 S (Groove Tube, matched pair)	49.95
6CG7/6FQ7 (RCA clear top)	23.70	6DN6	See 6CD6G	6FW5	See Web	6J8G	11.30	6L6G	41.10
6CG8-A	2.20	6DN7	5.70	6G5/6U5	See Web	6J9	See Web	6L6GA	17.80
6CH3	See 6CJ3	6DQ5	10.60	6G6G	5.00	6JB6-A	23.70	6L6GB	24.90
6CH8	3.10	6DQ6-A-B/6GW6	6.80	6GD7	0.50	6JC6A	4.70	6L6GC	54.95
6CJ3/6CH3	5.10	6DR4	5.70	6GE5	6.20	6JD5	See 6HZ5	6L6GC (JJ)	12.95
6CJ5/EF41	5.20	6DR7	4.60	6GE8/7734	26.90	6JD6	3.10	6L6GC (RCA black plate)	See Web
6CK3/6CL3	See Web	6DR8/EBF83	2.20	6GF7-A	5.90	6JE6C/6LQ6	51.95	6L6GC-M-STR (Ruby)	12.95
6CK4	See Web	6DT6-A	2.70	6GH8-A	4.00	6JE8	1.80	6L6GC (Winged C)	14.95
6CK5/EL41	14.70	6DV4	12.00	6GJ5-A	8.80	6JF6	9.00	6L6WGB	See 5881
6CL3	See 6CK3	6DW4B	See 6CJ3	6GJ8	5.20	6JG6-A	33.70	6L6WXT+ (Sovtek)	9.95
6CL6	6.40	6DX8/ECL84	2.20	6GK5	See 6FQ5A	6JH5	8.70	6L7	3.30
6CL8-A	4.00	6DY5/EL82	5.30	6GK6	13.80	6JH6	See 6BZ6	6L7G	See Web
6CM3/6DN3	5.00	6EZ4	See 6AF4A	6GL7	6.50	6JH8	5.10	6LB6	32.40
6CM4/EC86	6.60	6E5	25.70	6GM5	25.00	6JK6/6JL6	25.20	6LB8	2.20
6CM6	5.50	6E6	See Web	6GM6	5.10	6JK8	2.70	6LF6/6MH6	73.30
6CM7	2.30	6E7	11.00	6GM8/ECC86	5.40	6JL6	See 6JK6	6LH6A/6JL6	7.50
6CM8	3.20	6EA4/6EH4A	0.50	6GN8	See 6EB8	6JMG-A	5.30	6LJ6	See 6LH6A
6CN6/EL38	25.20	6EA7/6EM7	7.30	6GQ7	1.80	6JN6	4.80	6LJ8	0.50
6CN7	3.80	6EA8	6.80	6GT5-A	16.20	6JR6	28.50	6LN8	See 6BL8
6CQ8	2.70	6EB5	See 6AL5	6GU5	3.20	6JS6B	38.70	6LQ6	See 6JE6C
6CR6	1.80	6EB8/6GN8	4.80	6GU7	6.10	6JS6C	50.90	6LQ8	2.70
6CS6/EH90	3.90	6EH4A	See 6EA4	6GV8/ECL85	3.40	6JT6-A	26.20	6LR6	42.60
6CS7	4.00	6EH5	See 6CA5	6GW6	See 6DQ6A-B	6JU6	12.30	6L8	5.50
6CU5	1.80	6EH7/EF183	2.70	6GW8/ECL86	See Web	6JUS-A	2.70	6LW6	38.60
6CU6	See 6BQ6GTB	6EH8	1.80	6GX6/6GY6	3.60	6JWS/ECF802	3.30		
6CU7/ECH42	7.10	6EJ7/EF184	1.30	6GX8/EAM86	9.70	6JY8	See Web		
		6EL4A	See 6BK4C	6GY6	See 6GX6	6JZ6	5.80		

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6LX6	43.20	6SU7GT/6188	10.90	7S7	See 7J7	12AT7 (Fender)	8.95	12B7/14A7	5.60
6LX8/LCF802	2.70	6T8-A	1.80	7T7	4.50	12AT7/ECC81 (JJ)	8.95	12BA6/HF93	4.40
6LY8	0.50	6U8	See 6G5	7V7/1231	4.00	12AT7/E81CC (Mullard)		12BA7	2.50
6M11	6.20	6U6GT	4.50	7X7/XXFM	3.90	See Web		12BE6/HK90	6.70
6ME6	36.40	6U7G	3.50	7Y4	3.50	12AT7 (RCA)	25.40	12BF6/12BU6	2.60
6ME8	See Web	6U8A	See 6KD8	8AC9	0.50	12AT7/E81CC		12BH7A	21.70
6MH6	See 6LF6	6U10	5.80	8B8	See Web	(Telefunken)	See Web	12BH7A (Ei)	10.95
6MJ6	71.00	6V4/EZ80	10.25	8BQ5	9.80	12AT7WA	See 6201	12BL6	2.40
6N1P (Svetlana NOS)	5.95	6V6	17.20	8CB11	0.50	12AT7WC	10.20	12BQ6GT-A-B	3.10
6N03T (delay relay)	2.50	6V6 (Fender, matched pair)	18.95	8CS7	0.50	12AU6	3.85	12BU6	See 12BF6
6N5	See 6AB5	6V6 (JJ, spiral filament)	10.50	8EB8/8GN8	1.80	12AU7-A/ECC82	16.60	12BV7/12BY7-A	12.35
6N6G	27.50	6V6 C (Groove Tube, matched pair)	31.95	8GN8	See 8EB8	12AU7-A (Amperex Bugle Boy)	44.90	12BY7A	See 12BV7
6N7	5.50	6V6G	See Web	8GU7	See Web	12AU7 (China)	6.95	12BZ6	13.10
6N7GT	8.60	6V6GT	19.95	8KR8	0.50	12AU7 (Ei)	8.95	12BZ7	5.70
6N015 (delay relay)	13.50	6V6GT (China)	7.95	8SN7GTB	See Web	12AU7 (Ei Elite, gold pin)	10.50	12C5/12CU5	1.80
6N015T (delay relay)		6V6GT (Electro-Harmonix)	8.95	8X9	0.50	12AU7/ECC82 (JJ)	8.95	12CA5/12EH5	1.80
6N030 (delay relay)	13.50			9-4 (ballast)	2.50	12AU7-A (Mullard)	See Web	12CT8	2.70
6N045T (delay relay)		6V6GT (Mazda)	22.80	9AQ8/PCC85	See Web	12AU7-A (RCA)	27.95	12CU5	See 12C5
		6V6GT-BC (Ruby)	10.25	9RA6	See Web	12AU7-A (Telefunken)	44.90	12CU6	See 12BQ6GA
6P5G	26.10	6V7G	6.20	10	88.00	12AU7-A (Telefunken)	44.90	12DF7/12DT7	See Web
6P5GT	19.60	6W4GT	1.80	10CW5/LL86	See Web	12AV6	See 6189	12DQ6B/12GW6	10.20
6Q4/EC80	6.00	6W6GT	See 6DG6GT	10DE7	4.50	12AV7	3.70	12DT7	See 12DF7
6Q7	5.20	6W7G	5.40	10E	See Web	12AX7A	4.70	12DT8	6.70
6Q7G	See Web	6X4	5.80	10EM7	See Web	12AX7-A	21.95	12DV8	4.10
6Q7GT	5.40	6X4WA	See 6202	10JA5	See Web	12AX7A (Amperex Bugle Boy)	See Web	12DW7/7247	18.95
6Q11	See 6K11	6X5GT/EZ35	5.20	10JA8	0.50	12AX7 (China)	6.95	12DW7 (Ei Elite, gold pin)	12.95
6R4	10.60	6X8-A	3.90	10KR8/10LB8	5.50	12AX7 (Ei)	8.95	12DW7/ECC832 (JJ)	9.95
6RP15	See Web	6Y5	10.20	10LB8	See 10KR8	12AX7 (Ei Elite, gold pin)	9.95	12DY8	3.10
6S2-A/EY87	0.50	6Y6G	4.10	10T10	See Web	12AX7 (Electro-Harmonix)	9.95	12DZ6	5.30
6S4A	4.10	6Y6GA	4.00	10Y	82.50	12AX7/7025 (Fender)	9.95	12EH5	See 12CA5
6SA7	3.50	6Y6GT	4.60	11AF9	0.50	12AX7-C (Groove Tube)	14.95	12EL6	See Web
6SA7GT	3.70	6Z3	See 1V	11B (ballast)	2.50	12AX7/ECC83 (JJ, spiral filament)	9.50	12F8	See Web
6SB7-Y	5.10	6Z4/84	8.90	11BM8	5.60	12AX7 (Marshall, 3 pack)	39.95	12F60 (flasher)	2.50
6SC7	See Web	6Z7G	See Web	11KV8	0.50	12AX7 (Mullard)	See Web	12F66	See Web
6SC7GT	See Web	7A4/XXL	5.40	11MS8	6.40	12AX7-A (RCA)	39.70	12FM6	2.00
6SF5	4.40	7A6	2.80	11R3	0.50	12AX7A-C4 (Ruby)	9.95	12FQ7	6.00
6SF5GT	5.40	7A7	4.00	12A (ST)	41.10	12AX7 (Telefunken, ribbed plate)	See Web	12G4/12H4	6.20
6SF7	5.20	7A8	2.90	12A4	See Web	12AX7 (Telefunken, smooth plate)	See Web	12GB7	7.90
6SG7	5.90	7AD7	3.30	12A5	4.50	12AX7 (Sovtek, spiral filament)	10.95	12GC6	0.50
6SG7GT	See Web	7AF7	11.10	12A6	2.70	12AX7M (Groove Tube)	24.95	12GN7-A/12HG7	5.60
6SH7	3.90	7B5	3.10	12AB5	3.80	12AY7	16.50	12GT5	See Web
6SH7GT	6.50	7B6	4.80	12AD6/12AG6	2.50	12AZ7-A	5.70	12GW6	See 12DQ6B
6SJ7	4.80	7B7	See Web	12AE6-A	2.80	12B4A	5.50	12H4	See 12G4
6SJ7GT	11.40	7B8	3.00	12AF6	3.10			12H6	3.20
6SK7	5.40	7C5	9.90	12AG6	See 12AD6			12HB25	0.50
6SK7GT	5.20	7C6	See Web	12A11	See Web			12HG7	See 12GN7A
6SK7WA	See 6137	7C7	3.80	12AL5	3.70			12J5GT	3.10
6SL7GT	8.90	7DJ8/PCC88	9.00	12AL8	See Web			12J7GT	2.70
6SL7WGT	See Web	7E5/1201	6.20	12AL11	See Web			12JB6A	18.00
6SN7GT-B	19.95	7F7	8.50	12AQ5	2.40			12JZ8	8.40
6SN7GT (brown base)	41.80	7F8	8.80	12AT6/HBC90	3.30			12K5	3.20
		7G7/1232	See Web	12AT7/ECC81	9.90			12K7GT	3.60
6SN7GT (Russia)	5.95	7G8	6.20	12AT7/E81CC (Amperex Bugle Boy)	34.80			12QG6	3.90
6SQ7	5.40	7H7	5.10	12AT7 (China)	6.95			12Q7GT	3.40
6SQ7GT	4.50	7J7/7S7	4.50	12AT7 (Ei)	8.95			12SA7	6.50
6SS7	4.20	7N7	10.10	12AT7 (Ei Elite, gold pin)	10.50			12SA7GT	5.10
								12SC7	2.90
								12SF7	5.70



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12SG7	5.50	19	6.80	32	7.40	50JY6	See Web	117L7	6.60
12SJ7	3.60	19T8	7.40	32HQ7	0.50	50L6GT	7.40	117N7GT	6.20
12SJ7GT	See Web	19V8	5.00	33	6.90	50Y6GT	2.90	117Z3	4.80
12SK7	5.10	20EZ7	See Web	33GY7-A	5.00	53	8.20	117Z6GT	5.40
12SK7GT	5.40	20LF6	68.60	34	5.00	55	6.30	150C2	See OA2
12SL7GT	5.20	21GY5	See Web	34GD5-A	See Web	56	6.80	160L	See 572B
12SN7GT-A-B	8.60	21JS6A/23JS6	19.00	35-51	5.90	57	5.90	171-A	77.00
12SQ7	7.70	21LG6-A	See Web	35A5	4.50	58	8.00	201A-RG (solid state replacement for X201A)	
12SQ7GT	See Web	21LR8	6.90	35B5	2.70	59	15.10		
12SR7/12SW7	3.40	21LU8	See Web	35C5	See Web	60FX5	3.10		22.50
12SW7	See 12SR7	22JF6/22KM6	8.30	35D5	6.70	70L7GT	5.10	210	See Web
12SX7GT	27.80	22JR6	5.50	35L6GT	5.80	71A (ST)	41.10	211/VT-4C	See Web
12SY7	7.60	22KM6	See 22JF6	35LR6	17.20	72	4.70	215A	See Web
12U7	5.10	23JS6	See 21JS6A	35TG	See Web	75 (ST)	18.90	224	18.30
12V6GT	5.30	24A	13.10	35W4	7.50	76 (ST)	16.00	226	31.10
12X4	3.20	24JE6-A	9.80	35Y4	3.40	77	3.60	227	38.30
12Z3	See Web	24JE6C/24LQ6	23.80	35Z3	3.90	78	5.10	235/251	See Web
13A (ballast)	2.50	24LQ6	See 24JE6C	35Z4GT	3.10	80 (ST)	24.90	245	See Web
13CW4	17.20	25A6	5.40	35Z5GT	5.95	80 (tubular)	15.20	246	81.00
13D (ballast)	2.50	25A6GT	5.20	35Z6G	8.40	81 (ST)	18.80	247	See Web
13DE7	2.60	25AC5G	9.40	36	6.90	82 (ST)	See Web	247A (WE)	47.20
13EM7/15EA7	3.60	25AC5GT	4.60	36AM3B	2.60	83	28.95	250	See Web
13GF7A	7.60	25BR3/U329	0.50	36KD6/40KD6	21.10	83V	17.70	250TL	See Web
13J10/13Z10	3.60	25C5	5.10	36LW6	See Web	84	See 624	256	31.00
13Z10	See 13J10	25CD6GB	5.60	37	7.70	85	3.90	257A (WE)	52.60
14A7	See 12B7	25DK3	1.80	38	4.70	85A1	See OE3	262A-B (WE)	See Web
14AF7/XXD	6.50	25DK4	3.30	38A3/UY85	See Web	85A2	See OG3	272A (WE)	See Web
14B6	5.10	25DL3	0.50	38HE7/38HK7	7.80	100TH	See Web	274A (WE)	See Web
14F7	4.20	25E5/PL36	6.20	38HK7	See 38HE7	101D (WE)	See Web	275A (WE)	See Web
14GW8/PCL86	4.10	25EC6	0.50	39-44	3.50	101L (WE)	See Web	280	See Web
14L7/UBC41	4.00	25EH5	2.80	40 (ST)	See Web	101M (WE)	See Web	281	See Web
14N7	3.20	25L6	8.20	40KD6	See 36KD6	102D (WE)	See Web	291A	8.90
14Q7	3.10	25L6GT/25W6	4.90	40KG6A/PL519	17.90	102L (WE)	See Web	297A (WE)	9.70
14 (ST)	6.70	25W4GT	1.80	41 (ST)	15.30	112A	See Web	300B (JJ)	89.95
15	20.60	25W6	See 25L6GT	42KN6	8.40	114B	See Web	300B (Valve Art)	69.95
15EA7	See 13EM7	25W6GT	See 25L6GT	42 (ST)	22.10	115C3T (delay relay)	2.50	300B (WE)	See Web
15EW6	See Web	25Z5	3.70	43	6.40	115C30 (delay relay)	2.50	304TL	See Web
15LE8	See Web	25Z6GT	3.60	45	88.00	115C30T (delay relay)		307A	See Web
16BQ11	See Web	26 (ST)	21.80	45A5/UL41	17.20		2.50	309 (WE)	See Web
16KA6	0.50	26A6	5.30	45B5/UL84	5.10	115C45T (delay relay)		310A-B	28.10
16LU8-A	4.10	26A7GT	7.10	45 Special (WE)	See Web		2.50	310A-B (WE)	See Web
16Y9	0.50	26AQ8/UCC85	4.40	46 (ST)	24.00	115C90 (delay relay)	2.50	311A-B (WE)	39.20
17BF11	3.20	26E6WG	6.40	47 (ST)	23.80	115C180 (delay relay)		316A	See Web
17C9	6.30	26HU5	20.10	48	20.20		2.50	328A (WE)	52.90
17DE4	1.80	26LW6	18.40	49	13.00	115N02T (delay relay)		329A (WE)	See Web
17DE5	0.50	26LX6	21.80	50 (ST)	See Web		2.50	331A	See 805
17DQ6-B/17GW6	5.20	26Z5-W	20.00	50A1/D5TF30 (ballast)		115N05 (delay relay)	2.50	336A	18.30
17EW8/HCC85	See Web	27 (ST)	12.10		See Web	115N05T (delay relay)		337A (WE)	72.20
17GE5	See Web	27GB5/PL500	5.10	50A1 (solid state replacement)	16.95		2.50	338A (WE)	9.40
17GW6	See 17DQ6B	27LF6	55.20	50A5	3.10	115N010T (delay relay)		346C (WE)	1.00
17JM6	See Web	29LE6	2.00	50B5	3.10		13.50	350A (WE)	See Web
17JT6-A	0.50	30	20.20	50B5	3.10	115N030T (delay relay)		350B	See Web
17JZ8	6.60	30KD6	25.70	50BMS/UCL82	See Web		13.50	350B (Valve Art)	22.95
17KV6-A	7.70	30MB6	11.20	50C5	See Web	115N045T (delay relay)		350B (WE)	See Web
17L6GT	6.20	31	16.90	50EH5	4.20		13.50	353A (WE)	10.20
17LD8	0.50	31A3/UY41	8.10	50FE5	4.10	115N060 (delay relay)		368AS	12.20
17R5	0.50	31JS6-A	16.90	50GY7	0.50		13.50	393A	See Web
18FW6-A	2.20	31JS6C	17.50	50HC6	3.30	115N075T (delay relay)		396A/2C51	See Web
18GV8/PCL85	3.90	31LQ6	18.50	50HK6	See Web		13.50	396A/2C51 (WE)	27.75



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TUBES

399A-B	1.00	828	62.70	4848	See Web	5852	See Web	6146-A	22.90
401A	See 5590	829B/3E29	16.50	5031	See NL8037	5876A	21.50	6146B/8298A	33.75
403A (WE)	10.70	832A	7.90	5092/8421	See Web	5879	9.10	6146B (China)	16.95
403B	See 5591	834	See Web	5514	34.00	5881/6L6WGB	30.60	6146W/7212	26.70
404A	See 5847	836	See Web	5557/FG-17	82.10	5881 (Marshall, matched pair)	54.95	6151	See 5744
407A	5.60	837	7.60	5583	See Web	5881 (Russia, marked 6N3C-E)	8.95	6155	89.80
408A	See 6028	838	See Web	5590/401A	4.50	5881 (Sovtek)	9.95	6159B	20
412A/6754	See Web	841	29.50	5591/403B	10.70	5881 (Tung Sol)	60.60	6167	33.60
412A (WE)	53.40	843	35.30	5632	See C3J	5881WXT (Sovtek)	10.95	6186/6AG5WA	5.00
413B	2.50	845	See Web	5638	11.40	5886	67.40	6188	See 6SU7GT
415A	3.80	845 (Valve Art)	39.95	5641	9.60	5894/AX9903	55.30	6189/12AU7WA	11.40
416B/6280	17.60	864	42.60	5642	6.70	5899	8.60	6197	2.20
416C	14.90	866A	22.80	5644	4.20	5901	See 5840	6201/12AT7WA	9.00
416D	25.50	866AX	21.00	5651A	2.90	5902	See Web	6202/6X4WA	3.80
417A (WE)	See Web	866JR	See Web	5654/6AK5W	3.95	5905	18.20	6205	4.70
418A	See Web	872-A	51.50	5660	0.50	5908	See Web	6211A	4.00
420A (WE)	68.50	879	See 2X2A	5663	See Web	5915	1.80	6216	0.50
421A (WE)	77.80	884	7.20	5670/2C51W	4.40	5931/5U4WG	34.00	6225	See 5840
422A (WE)	See Web	921	4.70	5672/DL69	4.60	5932/6L6WGB	36.50	6227/E80L	37.90
423C	8.80	922	30.80	5675	38.20	5963/12AU7A	5.40	6252	19.50
425A (WE)	17.20	924	See 1P41	5676	3.60	5964	See Web	6267/EF86	37.95
427A	4.90	927/CE25C-D	22.00	5678	2.80	5965-A	3.00	6267/EF86 (Amperex Bugle Boy)	60.50
429A	13.00	929	See Web	5685	See C6J-K	5991	See 8422	6267/EF86 (Mullard)	60.50
432B (WE)	6.70	931A-B	34.60	5686	7.50	5993	5.70	6267/EF86 (Telefunken)	See Web
435A (WE)	32.80	932/1229	See Web	5687	See Web	5998	See Web	6279	See 5C22
451	See 8020	934	11.90	5687 (GE 5 star)	See Web	5998A	See Web	6280	See 416B
453A (WE)	See Web	950 (ST)	22.30	5687 (ECG JAN)	4.20	6000	31.30	6281	See 574AX
464A	See 2C43	951	See 1B4T	5687 (Tung Sol)	16.50	6005/6AQ5W	5.30	6293	21.50
485 (ST)	See Web	954	5.80	5691 (black/brown base)	27.50	6012	74.90	6299	15.00
520A	See 5755	955	4.20	5691 (red base)	48.95	6014	See C1K	6336-A-B	49.60
522AX	See 6088	957	3.60	5692 (black/brown base)	See Web	6021	2.70	6350	8.60
534AX	10.60	967	See 5557/FG-17	5692 (red base)	82.50	6028/408A	1.40	6354	0.50
572B/160L	See Web	991	3.50	5693	16.10	6029/573AX	8.10	6360-A	7.90
573AX	See 6029	1201	See 7E5	5694	See Web	6045	1.20	6384	See Web
574AX/6281	See Web	1229	See 932	5702	10.20	6072-A	21.90	6386	See Web
578	See 8020	1231	See 7V7	5703	9.40	6080	7.60	6414	9.90
604/7014	See Web	1232	See 7G7	5704	7.60	6080WC	10.10	6463	See Web
604L/7015	95.90	1252	See 6KD8	5718-A/EC70	7.20	6082-A	14.00	6476A	4.20
623	See Web	1273	6.20	5722	13.90	6083/AX9909	See Web	6481	See Web
631P1/SN4	See Web	1275	24.90	5725/6AS6W	1.80	6084/E80F	31.00	6485/6AH6WA	1.80
673	12.00	1276	See Web	5726/6AL5W	3.30	6085/E80CC	49.00	6519	8.90
705A	10.20	1280	10.30	5727	2.40	6087/5Y3WG7B	11.90	6520	See 6AS7G
717A	16.80	1299	See 3D6	5728	See FG-67	6088/522AX	7.90	6524	10.20
723A-B	See Web	1614	35.20	5744/6151	10.40	6096	See 5654	6533	18.30
801-A	See Web	1616	6.50	5749/6BA6W	3.70	6097	See 5726	6550-A	56.10
805/331A	95.50	1619	8.60	5750/6BE6W	4.20	6098/6AR6WA	See Web	6550 (ST)	See Web
807	17.80	1621	11.10	5751	16.50	6100/6C4WA	4.50	6550 (Fender, matched pair)	84.95
807 (China)	9.95	1622	See Web	5751 (GE JAN)	See Web	6101/6J6WA	1.80	6550 (Tung Sol)	See Web
808	See Web	1625	5.50	5755/502A	9.10	6106/5Y3WGT	10.30	6550A (Valve Art)	19.95
809	37.20	1626	9.50	5763	9.80	6111	6.30	6550A-STR (Ruby)	24.95
810	See Web	1629	14.95	5814A	5.70	6112	See Web	6550C (Winged C)	25.95
811A	48.30	1641/RK60	9.50	5820	See Web	6136/6AU6WA	3.40	6570	2.80
811A (China)	12.75	1659A	10.30	5823/Z900T	23.40	6137/6SK7WA	6.60	6626/0A2WA	4.00
812-A	68.80	1852	See 6AC7	5837	See Web	6140	9.70	6627/0B2WA	See Web
812A (China)	14.95	1853	See 6AB7	5840/6225	9.60	6143	See Web	6662/6BJ6	5.00
813	56.60	2050 (ST)	18.50	5841	See Web	6144	See Web	6669/6AQ5A	See Web
814	21.50	2050A (tubular)	20.60	5842/417A	13.10				
815	See Web	2050W	18.20	5847/404A	17.40				
816	22.40	2051	2.30						
826	37.00	4043	36.00						



# TUBES

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6677/6CL6	2.90	7308/E188CC (Mullard)	8421	See 5092	E80F	See 6084	ECL86	See 6GW8
6678/6U8A	4.50	See Web	8422/5991	5.60	E80L	See 6227	EF36	See 6J7
6679/12AT7	8.60	7308/E188CC	8426	5.70	E82CC	See 6189	EF37A	11.10
6680/12AU7A	6.50	(Telefunken) See Web	8445	0.50	E83F	See 6689	EF40	6.60
6681/12AX7A	19.40	7316	8458/YL1240	1.70	E84L	See 7320	EF41	See 6CJ5
6688/E180F	8.50	7320/E84L See Web	8463	1.60	E86C	13.10	EF80	See 6BX6
6688/E180F (gold pin)		7355	8532	3.30	E88CC	See 6922	EF85	See 6BY7
	9.80	7360	8552	See 6883B	E90F	See 68H6	EF86	See 6267
6689/E83F	10.90	7370	8556/EC8010	21.20	E99F	See 68J6	EF89	See 6DA6
6754	See 412A	7377/QQE04-5	8621	See 4CX250FG	E130L	See 7534	EF91	See 6AM6
6777	10.00	7403/3D21WB	8627	29.50	E130LF	See 7543	EF93	See 6BA6
6829	9.60	7408/6V6GT	8643	See Web	E180CC	See 7062	EF94	See 6AU6A
6877	See Web	7427	8930	See Web	E180F	See 6688	EF95	See 6AK5
6883B/8552	17.60	7534/E130L	8950	See Web	E182CC	See 7119	EF96	See 6AG5
6887	12.30	7543/E130LF	9001	5.30	E188CC	See 7308	EF183	See 6EH7
6888	See Web	7550	9002	5.10	E288CC	See 8223	EF184	See 6EJ7
6897	See 2C39B	7551	9006	2.20	E810F	See 7788	EF804	60.70
6922/E88CC	10.20	7558	38142	See 45 Special	E1148	3.20	EF804S	See Web
6922/E88CC (Amperex		7581A/KT66	A22D	See Web	EA53	88.90	EF805S	7.50
Bugle Boy) See Web		7586	AX9903	See 5894	EA91	See 6AL5	EFP60	12.40
6922/E88CC (JJ)	9.95	7591A	AX9909	See 6083	EABC80	See 6AK8	EH90	See 6CS6
6922/E88CC (Mullard)		7591A (Electro-Harmonix)	AZ41	8.60	EAF801	8.10	EK90	See 6BE6
See Web			B5991	See 8422	EAM86	See 6GX8	EL33	See 6AG6G
6922/E88CC (Telefunken)		7591-S (JJ)	BH	See Web	EB91	See 6AL5	EL34/6CA7 (JJ)	10.15
See Web		7643/E80CF	C1J-A	See C1K	EBC90	6.70	EL34 (Marshall, matched	
6948	7.40	7687	C1K/6014	92.70	EBC91	See 6AV6	pair)	69.95
6973	54.95	7695	C3J/5632	See Web	EBF83	See 6DR8	EL34B (Valve Art)	9.95
6989/6J-KL	See Web	7721	C3J-L	See Web	EBF89	See 6AD8	EL34/6CA7 (Winged C)	
7009	10.00	7723NE	C6J-A	See Web	EC70	See 5718		14.95
7014	See 604	7734	C6J-K/5685	11.00	EC80	See 604	EL34B-STR (Ruby)	13.95
7015	See 604L	7768	C6J-KL	See 6989	EC86	See 6CM4	EL34 (Electro-Harmonix)	
7025	29.70	7786NE	CE25C	See 927/CE25C-D	EC88	See 6DL4		10.50
7027-A	60.50	7788/E810F	CE25D	See 927/CE25C-D	EC90	See 6C4	EL38	See 6CN6
7027A (JJ)	18.95	7815-AL	CV450	See 6CN6	EC91	See 6AQ4	EL41	See 6CK5
7034	See 4X150A	7868	DAF41	8.80	EC92	See 6AB4	EL82	See 6DV5
7044	See Web	7898	DAF91	See 155	EC95	See 6ER5	EL84/6BQ5	23.25
7054/8077	4.20	7984	DAF96	See 1AF5	EC900	See 6HA5	EL84/6BQ5 (Amperex	
7061	4.20	8000	DCC90	See 3A5	EC8010	See 8556	Bugle Boy) See Web	
7062/E180CC	7.60	8005	DF91	See 1T4	ECC35	See Web	EL84/6BQ5 (EI)	7.95
7117	3.70	8020/451	DF92	See 1L4	ECC40	11.40	EL84/6BQ5 (EI Elite, gold	
7119/E182CC	16.90	8025-A	DG7-32	84.20	ECC81	See 12AT7	pin)	10.95
7163	See Web	8032A	DK40	13.50	ECC82	See 12AU7A	EL84 (Fender, matched	
7167	See Web	8056	DK91	See 1R5	ECC83	See 12AX7A	pair)	14.95
7189-A	See Web	8068	DL69	See 5672	ECC85	See 6A08	EL84/6BQ5 (JJ)	7.95
7193	See 2C22	8077	DL92	See 3S4	ECC86	See 6GM8	EL84/6BQ5 (Mullard)	
7199	31.50	8106	DL94	See 3V4	ECC88	See 6DJ8	See Web	
7199 (Sovtek)	15.95	8116	DL96	See 3C4	ECC91	See 6J6A	EL84/6BQ5 (RCA)	
7203	See 4CX250B	8156	DM70	See 1M3	ECC99 (JJ)	13.25	See Web	
7204	See 4CX250F	8163	DR2010	See Web	ECC189	See 6E58	EL84/6BQ5 (Sovtek)	6.95
7212	See 6146W	8165	DR2110	See Web	ECC803-S (JJ, spiral fila-		EL84/6BQ5 (Telefunken)	
7233	11.00	8167	DR2120	9.90	ment)	13.95	See Web	
7236	36.30	8188	DY80	See 1BX2	ECC808	See 6KX8	EL84 S (Groove Tube,	
7247	See 12DW7	8223/E288CC	E34L (JJ)	10.25	ECF80	See 6BL8	matched pair)	15.95
7258	See Web	8233/E55L	E34L (JJ, blue glass)	12.50	ECF82	See 6KD8	EL85	See 6BN5
7289/2C39A	32.50	8245	E34L-S (Groove Tube,		ECF802	See 6JW8	EL90	See 6AQ5A
7308/E188CC	See Web	8298A	matched pair)	39.95	ECH42	See 6CU7	EL95	See 6DL5
7308/E188CC (Amperex		8322	E55L	See 8233	ECH81	See 6AJ8	EL509	See 6KG6A
Bugle Boy) See Web		8416	E80CC	See 6085	ECL84	See 6DX8	ELL80	See 6HU8
7308 (gold pin)	49.50	8417	E80CF	See 7643	ECL85	See 6GV8	EM5	28.60



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EM34	See 6CD7	H63	See 6F5	KT90 (EI)	34.95	PL5557/PL17	UL84	See 45B5
EM80	See 6BR5	HABC80	See 19T8	KT100 (Valve Art)	28.95	See 5557/FG17	UY41	See 31A3
EM81	See 6DA5	HBC90	See 12AT6	LCF802	See 6LX8	QQE03-12	UY85	See 38A3
EM84	See 6FG6	HCC85	See 17EW8	LL86	See 10CW5	QQE04-5	V199	See Web
EM85	See Web	HCH81	See 12AJ7	M-2057	See Web	RA-1	V201A	78.80
EM87	See 6HU6	HF93	See 12BA6	M8079	13.80	REL-64	VR53	7.20
EMM801	72.80	HK90	See 12BE6	N142	See 45B5	RK34	VR75	See OA3
EMM803	17.20	HY69	23.80	NL8037/5031	See Web	RK60	VR90	See OB3
EY86	See 6S2-A/EY87	KL45 (ballast)	See Web	PCC85	See 9AQ8	SN4	VR105	See OC3-A
EY87	See 6S2-A	KT66	See 7581A	PCC88	See 7DJ8	TYPE 21 (ballast)	VR150	See OD3-A
EZ35	See 6X5GT	KT66 (GEC)	See Web	PCF200	See 8X9	U329	VT4C	See 211
EZ80	See 6V4	KT66 HP (Groove Tube)		PCF800-30C15	0.50	UABC80	WD-12	See Web
EZ81	See 6CA4	matched pair	47.95	PCL85	See 18GV8	UBC41	X200A	See Web
EZ90	See 6X4	KT66 (Valve Art)	19.95	PCL86	See 14GW8	UCC85	X201A/301A	47.50
FG-17	See 5557	KT88	See Web	PFL200	See 16Y9	UCH4	XXB	See 3C6
FG-67/5728	See Web	KT88 (GEC)	See Web	PL21	See 2D21	UCH21	XXD	See 14AF7
FM1000	9.00	KT88 (JJ)	35.95	PL36	See 25E5	UCL82	XXFM	See 7X7
GC10B	See Web	KT88 (JJ, blue glass)	39.95	PL95	12.10	UCL83	XXL	See 7A4
GV5A-2000	2.40	KT88 (Valve Art)	22.95	PL500	See 27GB5	UF9	YL1240	See 8458
GZ34	See 5AR4	KT88 (Winged C)	37.95	PL519	See 40KG6A	UL41	Z900T	See 5823

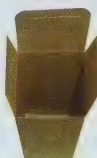
## Tube Boxes

Heavy plain white boxes with dividers to cushion tubes. Minimum order of 10 per size.

Box Size	Fits	lbs/100	Part	Each	Per 100	Case Quantity	Case Price
1" x 1" x 3" (min)	12AX7 etc.	1.0	S-B247	\$0.17	\$14.45	1500	\$189.00
1" x 1" x 3 1/4" (min)	6BQ5, EL84 etc.	1.0	S-B254	0.22	18.70	1500	252.00
1 1/4" x 1 1/4" x 3 13/16"	6V6GT, 6SN7, 12SK7	1.5	S-B248	0.22	18.70	750	126.75
1 5/8" x 1 5/8" x 4 15/16"	6L6GC, thin EL34	3.0	S-B249	0.31	26.35	650	149.00
1 7/8" x 1 7/8" x 5 3/8"	45(ST), 71A, 6550A	4.0	S-B251	0.35	29.75	750	195.00
2 3/4" x 2 3/4" x 6 3/8"	6550, KT88, 2A3, 807	5.5	S-B252	0.39	33.15	500	145.00
3" x 3" x 7"	811A, Globe 250	7.0	S-B253	0.49	41.65	300	109.00

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## Heavy Plain Tube Boxes

No divider for larger industrial and transmitting tubes. Sold individually.

3" x 3" x 10"	S-B120	\$0.65
3" x 3" x 5"	S-B121	.55
4" x 4" x 4"	S-B122	.55

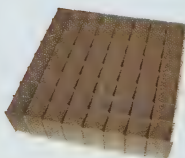
## Tube Egg Crate

15" x 15" egg crate packing boxes designed for storing tubes. Supplied unassembled.

	Cells	Size	Part	Price
7 and 9 miniature	289	7/8" x 1 3/4" high	S-B123	\$8.00
GT, Metal	121	1 7/16" x 2 7/8" high	S-B124	9.60
Small ST	81	1 1/2" x 3" high	S-B125	9.00
Large ST	64	1 13/16" x 3 3/4" high	S-B126	7.20

## Cartons for above

15" x 15" x 4"	S-B127	4.95
15" x 15" x 5"	S-B128	4.95



# BOXES

12

Antique Electronic Supply • 480.820.5411 • [www.tubesandmore.com](http://www.tubesandmore.com)



## ADAPTERS, SHIELDS & RETAINERS

### Yellow Jacket Converters

Yellow Jacket converters are specialized adapters which permit the use of EL84/6BQ5 power tubes in place of 6V6, 6L6, EL34 and 7591A types. Yellow Jacket converters not only rearrange the pin locations of the tubes but also provide the necessary current limiting on the screens and cathode. Yellow Jackets block the amplifier's grid bias voltage, which configures the EL84/6BQ5 into a class A self adjusting bias circuit. Manufacturer recommends the JJ EL84/6BQ5. Yellow Jackets are not always yellow. Stock varies between yellow, black and red. The color has no bearing on the sound! Tubes not included.

Converts 6L6 or EL34	P-SAYJ	\$39.95
Converts 6V6	P-SAYJ20	39.95
Converts 7591A	P-SAYJ7591	39.95
JJ EL84 Tube		7.95

### Point to Point Terminal Boards

Rigid high temp (285° F continuous) epoxy board, FR4 0.125" thick with 2/0 copper cladding, 0.500" standoffs, solid brass electro-solder plated terminals, gold plated ceramic tube sockets, mounting hardware and template included.

Single 9 pin miniature socket. 3" x 3"	P-SB9-1	\$13.95
Dual 9 pin miniature sockets. 3" x 5 1/4"	P-SB9-2	22.95
Single octal socket. 3" x 3"	P-SB8-1	13.95
Dual octal sockets. 3" x 5 1/4"	P-SB8-2	23.95

### Solid State Rectifier

Direct plug-in replacement for 5AR4, 5U4 and 5Y3 rectifier tubes in amplifiers with center tapped secondary power transformer. Use when less "sag" is desired in the power supply, use the tube rectifier when "sag" is desired. **NOTE!** Because there is no warm up of a rectifier tube when using this solid state device, it is critical that a standby switch is used that will allow the power tube filaments to warm up and generate an electron "cloud" around the cathode before high voltage is applied. This will prevent "cathode stripping" in the power tubes. It is a good idea to use a standby switch when using vacuum tube rectification, but it is critical when using solid state rectification.

T-SSR01	\$9.95
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### Tube Shields

bayonet style with spring  
7 pin

7 pin, 1 1/8" tall, steel, NOS	P-SS7-157	\$0.95
7 pin, 2 1/4" tall, steel, NOS	P-SS7-194	1.25

### 9 Pin

9 pin, 1 1/2" tall, steel, NOS (Eby)	P-SS9-161	1.95
9 pin, 1 1/2" tall w/base, alum, China	P-SS9-162	1.40
9 pin, 1 1/8" tall w/base, alum, China	P-SS9-325	1.40

9 pin, miniature shield with socket, phenolic base, steel shield	P-ST9-163	6.95
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### Other Type (NOS)

7 pin, 1 1/8" tall, push-on (While Supplies Last!)	P-SS7-173	\$0.65
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### Ceramic Grid/Plate Caps

3/4" (6K7)	P-SG116	\$6.50
3/8" (6X4)	P-SG110	2.50
7/16" (807)	P-SG111	2.25
9/16" (811, 572B)	P-SG115	2.95

### Tube Retainers

For use with guitar amps and applications where the tube is suspended upside down in the chassis.

EL34, 5881, 6L6GC	S-H141	\$1.95
KT88, 6550	S-H143	1.95
EL84	S-H144	1.95

### Octal Tube Clip

High quality. Grips tube base with "teeth" to securely hold tube in place. For use with octal sockets with 1 1/2" mounting centers. Sold individually.



S-H142



S-H144

### "Type S" Socket Adapter Plate

When the hole in the chassis is too large to mount a Type S socket directly to the chassis with a wavy washer, this adapter can be used. 1 1/16" diameter opening in plate, 1 1/2" to 1 7/8" mounting centers can be used. Socket is secured to plate with wavy washer.

Mounting plate	P-SH12-1-31	\$1.50
Wavy washer	P-SH2-104-2	.40

### Octal Keyway Replacement

Do you have valuable octal type tubes that work fine except the keyway has been broken off the base? Fix them with this simple and inexpensive product. Simply clean the remainder of the broken keyway from the base and slip one of these on. Will stay on by itself, or you can use a dab of silicon to attach if you wish. Package of 4 keyway replacements. **While Supplies Last!**

### Octal Relay Socket

Great for experimenting! Use anywhere you would use a normal octal tube socket, but use screw terminal strips to attach wiring. No need to mount socket and solder leads.

### Octal Tube Base

Used for octal plug or coil form 1 1/4" dia. x 5/8" high. Comes in either light or dark brown, selected randomly.

P-ST8-108S	\$9.95
P-SP4-477C	\$4.95
P-SP4-477	2.95

### Tube Bases

4 pin, ceramic	P-SP4-477C	\$4.95
4 pin, bakelite	P-SP4-477	2.95

P-SP4-477C

P-SP4-477

# RETAINERS

Listed are sockets we normally stock. Because most of our sockets are surplus and have been in storage for years, some types may show minor signs of corrosion and dirt buildup. All sockets are unused. We may run out of certain types. The figures show the general design and style of the socket type. Due to the many variations of sockets produced by different manufacturers over the years, sockets of the same part number may vary. If you have a specific requirement for your socket, please state this need on your order.

Socket	Insulator Material	Mounting: Top Bottom	Mounting Centers (")	Chassis Hole Dia. (")	Notes	Part	Price
<b>4 pin - 300B/811 sizes</b>							
bayonet	C	t	2			P-ST4-312	\$4.50
plate	C	b	1 1/4		8	P-ST4-191	4.50
saddle - mip NOS	P	t,b	1 1/2	1 1/4		P-ST4-205M	6.95
<b>4 pin - 211/845 size</b>							
bayonet	C	t	2 1/4			P-ST4-192	7.95
bayonet (gold plated)	C	t	2 1/4		1	P-ST4-193	12.95
<b>5 pin - 24/27 size</b>							
plate	C	b	1 1/4			P-ST5-216	3.95
<b>6 pin - 41/42 size</b>							
plate NOS	C	b	1 1/4		8, 12	P-ST6-166	4.95
saddle, plate NOS	P	t	1 1/2 to 1 3/4	1 1/2		P-ST6-207M	5.95
<b>7 pin - 6C33CB size</b>							
plate	C	b	1 1/4 x 1 1/4		8	P-ST7-310	3.95
<b>7 pin - 813 size</b>							
plate	C	b	1 1/4 x 1 1/4		8	P-ST7-813	3.95
<b>7 pin - 1625 size</b>							
plate	C	b	1 3/4		8	P-ST7-311	3.95
<b>7 pin miniature - 12AU6 size</b>							
saddle-plate NOS	M	t	7/8	3/8		P-ST7-201MX	.75
saddle-plate NOS	M	b	7/8	3/8		P-ST7-201MXB	.95
saddle-plate NOS	P	b	7/8	3/8	2, 11	P-ST7-205L	.75
saddle-separate plate	C	t(b)	7/8	3/8	7, 9	P-ST7-814	.95
saddle-shield base NOS	M	t	7/8	3/8		P-ST7-151	.75
saddle-shield base NOS	C	t	7/8	3/8		P-ST7-202	1.75
saddle-tele. shield NOS	M	t	1 1/8	3/8		P-ST7-156	.35
saddle-tele. shield NOS	B	t	1	3/8		P-ST7-157	.35
braise-tele. shield NOS	P	t		23/32	6	P-ST7-158	.40
pc-snap in NOS	P	t		11/16		P-ST7-815	.25
wafer	P	b	7/8			P-ST7-201A	.95
<b>8 pin - Octal Sizes</b>							
molded NOS	P	t		1 1/16	5, 13	P-ST8-185	2.25
molded NOS	P	t	1 1/2	1	7	P-ST8-325	4.95

**Insulator Materials:** B = Bakelite C = ceramic Cx = Cetanex M = Micalox P = phenolic Pl = plastic

### Socket Notes

- Gold plated contacts
- Most have a center shield
- Press in contact tails provide mechanical retention prior to soldering to PC board.
- Socket rests on shoulder of contact tail, providing an air gap for cooling. For 1/16" circuit boards with bottom circuitry.
- Mounting hardware not available.
- As far as we can tell, these sockets are designed to be pressed into the chassis and braised. Buy a few and try!
- Mounting ring provided allows socket to be mounted from the top or bottom of chassis.
- Bossed mounting holes and recessed rivets allows sub-panel mounting
- Separate mounting ring is designed for top mounting but could be used for bottom mounting in thin gauge chassis (<0.06" thick).
- P-ST8-800 and P-ST8-801 are identical except for contact style P-ST8-800 has split circular contacts while P-ST8-801 has split straight contacts.
- Solder lugs
- Wire wrap lugs
- Keyed hole
- Oval
- Rectangular
- Unique molded saddle allows for off center mounting of socket. Can be mounted closer to edge of chassis or other components
- Crimped bracket
- Fender® drop-in
- Screw base
- No solder lugs

# SOCKETS



Socket	Insulator Material	Mounting: Top Bottom	Mounting Centers (")	Chassis Hole Dia. (")	Notes	Part	Price
<b>8 pin octal - EL34/6SL7 size</b>							
mip	P	b	1 1/2	1 1/4		P-ST8-485	\$6.95
saddle-plate, black	P	b	1 1/2	1 1/4		P-ST8-209M	3.95
saddle-mip	M	t,b	1 1/2	1 1/16		P-ST8-209MIP	4.95
saddle-ring mount	C	t,b	1 1/16	1 1/16 to 1 1/4	7, 10	P-ST8-800	2.25
saddle-ring mount	C	t,b	1 1/16	1 1/16	7, 10	P-ST8-801	2.25
saddle-ring mount	C	t,b	1 1/16	1 1/16 to 1 1/4	7, 10	P-ST8-802	6.95
saddle	C	t	1 1/2	1	17, 18	P-ST8-807	2.25
saddle, pc mount	C	t	1 1/2	1	17	P-ST8-807-PC	2.95
saddle	Cx	b	1 1/2	1 1/8	17	P-ST8-808	6.95
wafer NOS	P	b	1 1/2		14	P-ST8-127	2.25
wafer NOS	P	b	1 1/2		15	P-ST8-128	.95
wafer NOS	P	b	1 1/16			P-ST8-209W	.75
pc-stand-off	C	t	1	1 tail dia.	4	P-ST8-193	2.95
pc-stand-off - gold pins	C	t	1	1 tail dia.	4	P-ST8-193G	3.50

### 9 pin magnoval - EL509/6K66A size

all molded NOS	C	t,b	1 1/16 - 1 1/8	15/16 top, 1 1/8 bottom		P-ST9-509	5.25
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### 9 pin miniature - 12AX7/12BH7 size

saddle-plate	P	t	1 1/8	3/4	2	P-ST9-100	6.95
saddle-plate	P	b	1 1/8	3/4	11	P-ST9-211M	4.95
saddle-shield base	P	t	1 1/8	3/4	18	P-ST9-213	2.25
saddle-shield base	M	t	1 1/8	3/4	18	P-ST9-213MX	4.95
saddle with shield	C	t	1 1/8	7/8		P-ST9-162	2.95
saddle with steel shield	P	t	1 1/8	3/4	18	P-ST9-163	6.95
saddle-molded NOS	M	t,b	7/8 or 1	3/4	16	P-ST9-265	.95
saddle-shock mount NOS	M	b	1 1/4	3/4		P-ST9-137R	2.25
saddle	C	t,b	1 1/8	7/8	7, 9	P-ST9-511	1.95
wafer NOS	P	b	1 1/16		15	P-ST9-149	.95
saddle	C	t	1 1/8	7/8		P-ST9-200	5.95
pc-stand-off, white	C	t		15/16 tail dia.	4	P-ST9-214	2.50
pc-stand-off, white	C	t		15/16 tail dia.	1, 4	P-ST9-214G	3.50
pc-stand-off, white	PI	t		3/4 tail dia.	4	P-ST9-215	1.95
pc mount-split tail NOS	P	t		25/32 tail dia.		P-ST9-218	.75
pc mount-stand off	P	t		15/16 tail dia.	4	P-ST9-219	2.25
pc-stand-off, white	C	t		15/16 tail dia.	4	P-ST9-222	2.95
pc-snap in NOS	M	t				P-ST9-522	.50
saddle	M	t	1 1/8	3/4		P-ST9-600	2.95
socket saver	P	t				P-ST9-900	7.95
saddle-high voltage	PI	t	2 1/4	1 1/4	19	P-ST9-102	.95
saddle	B	b	1 1/8	1 1/8	20	P-ST9-211	4.50
saddle-shield base	M	t	1 1/8	3/4	17	P-ST9-700	2.95

### 9 pin compactron - 6KV6/6JE6 size

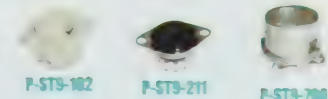
saddle-plate NOS	P	b	1 1/16	1		P-ST9-254M	2.95
pc-stand-off NOS	P	t		15/16 tail dia.	4	P-ST9-215-1	.95
molded	PI	b, t	1 1/4	1		P-ST9-103	1.95
saddle	B	t	1 1/8	1		P-ST9-104	1.95

### 11 pin octal

saddle MIP	P	b	1 1/2	1 1/4		P-ST11-MIP	3.50
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### 12 pin compactron - 6LF6/20LF6 size

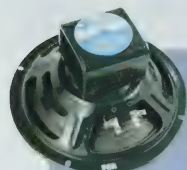
pc mount	PI	t		1		P-ST12-113-C	3.95
molded	PI	t, b	1 1/4	1		P-ST12-296M	3.95



# SOCKETS

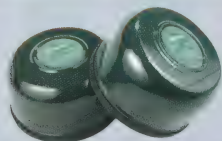
**AINiCo****The Jensen Loudspeakers P Series uses the legendary AINiCo type speaker magnet**

	Size	Ohms	RMS/Peak	Response	Voice Coil Diameter	Magnet Weight	Part	Price	
8"	P8R	8"	4/8	25/50	80-8k	1"	7oz	P-A-P8R	\$59.95
	The heart and soul of smaller vintage combos and studio amps.								
10"	P10R	10"	4/8/16	25/50	80-6k	1"	7oz	P-A-P10R	63.95
	This speaker has occupied the finest guitar amplifiers in the world. Very versatile for clean leads, punchy bass, and scorching rock sounds. Pure Vintage!								
	P10Q	10"	8/16	35/70	80-6k	1.25"	10.5oz	P-A-P10Q	74.95
The magic of this speaker is its power upgrade from the legendary P10R									
12"	P12R	12"	8/16	25/50	60-8k	1"	7oz	P-A-P12R	69.95
	A classic AlNiCo 12" speaker made for lower wattages. The P12R sings with bell like highs along with a warm, extended lower frequency range.								
	P12Q	12"	8/16/32	35/70	60-8k	1.25"	10.5oz	P-A-P12Q	81.95
	Sweet, smooth and powerful, this speaker has it all including a great punch!								
	P12N w/bell	12"	8/16	50/100	60-8k	1.5"	12.5oz	P-A-P12N	149.95
	This classic AlNiCo magnet speaker was one of the original guitar amplifier speakers from as early as 1952.								
15"	P12N-NB	12"	8/16	50/100	60-8k	1.5"	12.5oz	P-A-P12N-NB	139.95
	The "naked" version of the P12N, it doesn't have the bell cover over the magnet. A bell cover can be added later using the "N" size cover.								
	P15N	15"	4/8/16	50/100	50-4k	1.5"	12.5oz	P-A-P15N	179.95
Some guitarists feel that a 15" speaker is the only way to get an instrument's true tone without compromise. Bell not included.									
15" Speaker Gasket								P-A-GASKET-15	6.00
Additional gasket for 15" speakers for proper spacing in Leslie cabinets.									

**Please specify ohm rating when ordering.****P8R****P10Q****P12N****P15N**

# Jensen®

loudspeakers

**Bell Covers**

	Usage	Part	Price
<b>Bell-R</b>	P8R, P10R, P10Q, P12R, P12Q	P-A-BELL-P-R	\$19.95
<b>Bell-N</b>	P12N, P15N	P-A-BELL-N	24.95

## It's your tone



## CERAMIC

The C series of Jensen Loudspeakers uses ceramic type speaker magnets

	Size	Ohms	RMS/Peak	Response	Voice Coil Diameter	Magnet Weight	Part	Price
<b>C8R</b>	8"	4/8	25/50	80-8k	1"	10oz	P-A-C8R	\$25.95

Amazing range in a compact size. It is used most often for smaller studio and practice amps, however, the tone rivals speakers twice its size. This is a great replacement for the Fender® Champ.

<b>C10R</b>	10"	8	25/50	80-6k	1"	10oz	P-A-C10R	28.95
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low wattage 10" speaker with a loud voice. The C10R can cut through the noise for scorching leads.

<b>C10Q</b>	10"	8/16	35/70	80-6k	1.25"	15oz	P-A-C10Q	34.95
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One of Jensen's most popular models, this speaker features bell-like highs and a smooth midrange.

Versatile enough for anything from surf music to hard edge rock.

<b>C12R</b>	12"	8/16	25/50	70-6k	1"	10oz	P-A-C12R	33.95
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Vintage tone in a low wattage 12" speaker.

<b>C12Q</b>	12"	8/16	35/70	70-6k	1.25"	15oz	P-A-C12Q	39.95
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Great character and power handling makes this speaker an excellent choice for amplifiers needing vintage tone.

<b>C12N</b>	12"	4/8/16	50/100	70-7k	1.5"	28.5oz	P-A-C12N	58.95
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The C12N is the definitive rock and roll speaker, used by almost every major amplifier manufacturer in the 1960's.

<b>C12K</b>	12"	4/8/16	100/200	70-7k	2"	50oz	P-A-C12K	75.95
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This high wattage speaker has great highs and an extended midrange

for versatility in both clean and overdriven settings.

<b>C15N</b>	15"	4/8/16	50/100	50-4k	1.5"	28.5oz	P-A-C15N	84.95
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A 15" speaker with a wide range of tone reproduction. Smooth highs and deep lows.

<b>C15K</b>	15"	8/16	100/200	50-4k	2"	50oz	P-A-C15K	91.95
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Jensen 15" ceramic magnet speakers have biting highs for lead and a throaty low end for overdriven chords. Excellent in guitar amps or in Leslie speaker cabinets.

### 15" Speaker Gasket

P-A-GASKET-15	6.00
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Additional gasket for 15" speakers for proper spacing in Leslie cabinets.

Please specify ohm rating when ordering.

For information on speaker ohm ratings and parallel or series wiring, check out the **Tech Section** on our website



C15K



C10Q



C8R



C12N

For more detailed specifications,  
see [www.jensenvintage.com](http://www.jensenvintage.com)



**JENSEN**

Info@tubesandmore.com • FAX: 480.820.4643 or toll free fax: 800.706.6789

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## MODs

		Size	Ohms	RMS/Peak	Voice Coil Diameter	Magnet Weight	Part	Price
6"	MOD6-15	6"	4	15/30	.75"	5.6oz	P-A-MOD6-15	\$16.95
	Super power in only six inches							
8"	MOD8-20	8"	4/8	20/40	1"	5.6oz	P-A-MOD8-20	17.95
	Smooth highs with a well-defined bottom							
10"	MOD10-35	10"	8/16	35/70	1"	10oz	P-A-MOD10-35	23.95
	Good low wattage ten for excellent speaker movement							
	MOD10-50	10"	4/8/16/32	50/100	1.25"	15oz	P-A-MOD10-50	28.95
	Mid wattage ten for all your ten needs in every impedance possible							
12"	MOD10-70	10"	8	70/140	1.5"	22.5oz	P-A-MOD10-70	32.95
	Mega ten for bass amps							
	MOD12-35	12"	8/16	35/70	1"	10oz	P-A-MOD12-35	29.95
	Light wattage twelve for excellent speaker movement							
	MOD12-50	12"	8/16	50/100	1.25"	15oz	P-A-MOD12-50	35.95
	The work horse of the Mods, this is the most popular and most versatile							
15"	MOD12-70	12"	4/8/16	70/140	1.5"	22.5oz	P-A-MOD12-70	45.95
	The speaker that can rival any other speaker in their 4X12 cab							
	MOD12-110	12"	8/16	110/220	2"	32oz	P-A-MOD12-110	52.95
	Super heavy wattage, excellent for maximum clean tone							
15"	MOD15-120	15"	4/8/16	120/240	2"	28.5oz	P-A-MOD15-120	64.95
	Great for guitar and low wattage bass applications							
	MOD15-200	15"	4/8/16	200/400	2.5"	50oz	P-A-MOD15-200	89.95
Full body for bass								

Please specify ohm rating when ordering.



Mod 6-15



Mod 8-20



Mod 10-70



Mod 12-70



Mod 15-200



# JENSEN



## JENSEN® NEO

Neodymium was discovered in 1885 by C.A. von Welsbach who separated Mosander's "didymium" into two components, the earth's neodymia and praeosodymia. C.A. had no idea that over 100 years later he would change the face and sound of the music industry. Jensen® developed the perfect warm high-power speaker using the lightweight neodymium magnet. The speaker of the future is here today!

	Size	Ohms	RMS/Peak	Voice Coil Diameter	Magnet Weight	Part	Price
NEO-10-100	10"	8/16	100/200	2"	7oz	P-A-NEO10-100	\$79.95
NEO-12-100	12"	4/8/16	100/200	2"	7oz	P-A-NEO12-100	92.95
NEO-15-150	15"	8/16	150/300	2.5"	7.75 oz	P-A-NEO15-150	107.95
NEO-15-300	15"	8	300/600	3"	12.75 oz	P-A-NEO15-300	184.95

10" 12" 15"

Please specify ohm rating when ordering.



NEO-10-100



NEO-12-100



NEO-15-300



## CELESTION SPEAKERS

Anniversary "Heritage" Made In England.

	Size	Ohms	Watts	Voice Coil Diameter	Magnet Weight	Part	Price
G12H	12"	8/15	30/60	1.75"	50oz	P-A-G12H-HT	\$219.95

The Heritage series was created from the recently discovered specifications and drawings to give a guitarist the same warmth and smoothness as the original.

Greenback "Heritage" Made In England.

G12M	12"	8/16	25/50	1.75"	35oz	P-A-G12M-HT	\$194.95
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This is an exact recreation of the original low resonance model.

This speaker produces a thick, dense sound with a low rumbling bottom end.

Please specify ohm rating when ordering.



G12H



G12M



New Heritage Series  
made completely in England.

NEOS +



## CELESTION

## CELESTION

	Size	Ohms	RMS/Peak	Response	Voice Coil Diameter	Magnet Weight	Part	Price
<b>TUBE 10</b>	10"	8	30/60	85-5k	1.5"	17oz	P-A-TUBE10	\$39.95
Celestion's standard 10" speaker.								
<b>G10 Vintage</b>	10"	8	60/120	100-7k	1.75"	31oz	P-A-G10V	84.95
Celestion's specialized 10" speaker.								

<b>G12</b>	12"	8/16	15/30	75-5k	1.75"	30oz	P-A-G12	248.95
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**AlNiCo Blue** Designed in the 50's, this speaker uses the original magnet to provide the tonal definition and dynamic range they are known for. Vox Bulldog speaker.

<b>G12M</b>	12"	8/16	25/50	75-5k	1.75"	35oz	P-A-G12M	99.95
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**Greenback** Warmth and woodiness are the essential characteristics of this speaker along with the ability to respond instantly to the most subtle dynamic changes.

<b>G12H</b>	12"	8/16	30/60	75-5k	1.75"	50oz	P-A-G12H	119.95
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With roots dating to the 1970's, the G12H has a tight, controlled bottom and a great midrange presence. Anniversary Edition.

<b>Vintage 30</b>	12"	8/16	60/120	70-5k	1.75"	50oz	P-A-VINT30	109.95
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Great combo performer, this speaker thrives on high gain amps set to the max.

This speaker has loads of volume and sustain, combined with tight, responsive single note definition.

<b>G12T-75</b>	12"	8/16	75/150	80-5k	1.75"	35oz	P-A-G12T75	94.95
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This is the industry standard 12" loudspeaker, found in all recent 4x12 Marshall™ amplifiers.

<b>G12-80</b>	12"	8/16	80/160	80-5k	1.75"	50oz	P-A-G1280	119.95
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**Classic Lead** If you're looking for improved power handling and warmth, this speaker is what you want! Perfect replacement or upgrade for 4x12 Marshall's™.

<b>G12 Century</b>	12"	8	80/160	80-5k	1.75"		P-A-CNTRY	194.95
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With the G12 Century, you get a speaker with low weight and previously unheard of performance. This new speaker has the ability to deliver extremely high sound pressure levels (121dB@1 meter) in an ultra lightweight package. The secret to this speaker is the Neodymium alloy magnet structure.

Please specify ohm rating when ordering.

# TRUVOX

PROFESSIONAL LOUDSPEAKER

## Professional Series - for sound reinforcement

<b>Truvox 1020</b>	10"	8	150/300	60-3k	2.0"	42oz	P-A-T1020	67.95
<b>Truvox 1218</b>	12"	8	100/200	60-4.5k	1.75"	31oz	P-A-T1218	55.95
<b>Truvox 1225</b>	12"	8	250/500	40-4k	2.5"	42oz	P-A-T1225	75.95
<b>Truvox 1225E</b>	12"	8	300/600	50-3k	2.5"	50oz	P-A-T1225E	91.95
<b>Truvox 1525</b>	15"	8	250/500	40-3k	2.5"	42oz	P-A-T1525	91.95
<b>Truvox 1525E</b>	15"	8	300/600	45-3.5k	2.5"	50oz	P-A-T1525E	91.95
<b>Truvox 1530</b>	15"	8	400/800	40-3k	3.0"	40oz	P-A-T1530	135.95



# CELESTION

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## SICA SOLIDS

Super heavy duty European made speakers for a multitude of musical applications. **Made in the same factory as Jensen®.**

	Size	Ohms	RMS/Peak	Voice Coil Diameter	Magnet Weight	Part	Price
Sica Solid 10	10"	8/16	80/160	1.5"	22.5 oz	P-A-SLD10-80	\$45.95
Sica Solid 12	12"	8/16	100/200	2"	50 oz	P-A-SLD12-100	59.95

Please specify ohm rating when ordering.

SICA SOLID 10



SICA SOLID 12

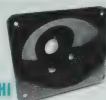


## HF DRIVER WITH HORN

	Ohms	RMS/Peak	Magnet Weight	Part	Price
1" Compression Driver					
Driver Only 1.5k-20k	8	20/40	ceramic 13.5 oz	P-A-SSDRI	\$23.95
Horn Only				P-A-SSHI	12.50
Driver & Horn Assembled			ceramic 13.5 oz	P-A-SSHFDI	34.95

Made in the same factory as Jensen®.

P-A-SSHI



P-A-SSDRI



P-A-SSHFDI



## JENSEN® REPLACEMENT FOR TRACE ELLIOT

	Size	Ohms	RMS/Peak	Magnet Weight	Part	Price
Trace Elliot	5"	8	30/60	ceramic 13.4 oz	P-A-JA5-30	\$18.95

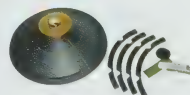


## JENSEN® RECONE KITS

Recone Kits	Part	Price
P10R	K-RC-P10R	\$63.95
C10R	K-RC-C10R	28.95
C10Q	K-RC-C10Q	34.95
C12N	K-RC-C12N	58.95

Recone your original Jensen speakers with these kits.

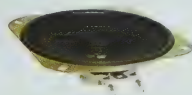
As reconing is a specialized skill, these do not come with instructions and are for use by those who have experience in speaker reconing. Original Jensen Speaker Recone Kits are made exclusively for older "Original" Jensen speakers (made prior to 1980) and contain genuine Jensen components. These kits cannot be returned or used on Jensen re-issue Vintage Series Models.



## Miscellaneous Replacement Speakers

High quality, permanent magnet. For electro-dynamic speakers we suggest substituting a 5 or 10 watt wirewound resistor of approximately the same resistance as the old field coil. See the Tech Corner of our website for instructions. While Supplies Last!

Size	Shape	Impedance	Watts	Part	Price
4"	Square	8 ohms	1	P-A600	8.95
4 1/2"	Pin Cushion	6 ohms	5	P-A601	5.95
6"	Round	4 ohms	15	P-A-MOD6-15	16.95
6"	Pin Cushion	8 ohms	10	P-A602	8.95
6" x 9"	Oval	4 ohms	8	P-A69E8C	12.50
8"	Round	4 or 8 ohms	20	P-A-MOD8-20	17.95



# SPEAKERS

## OUTPUT

Replacement transformers and chokes for guitar amplifiers. Highest quality replacements available! All made entirely in the United States to the fully rated original specifications. Excellent drop-in replacements for your amplifier.

### Replacement Output Transformers for Fender® Amps

Superior output transformers for optimal performance.

	Wattage	Ohms	Pri. Imp. (ohms)	Sec. Imp. (ohms)	Mounting Centers	Weight	Price
<b>P-TF22905</b>	8	4	7000	3.2	2.375", vert.	0.6	\$28.95
Replacement for: Champ®, Vibro Champ® and Bronco® Equivalent to #125A35A & #022905							
<b>P-TF22913</b>	12	8	8000CT	8	2.875", vert.	1.0	29.95
Replacement for: Princeton Reverb®, Tweed Deluxe® Equivalent to #125A10B & #022913							
<b>P-TF41318</b>	25	8	6600CT	8	3.125", vert.	1.6	29.95
Replacement for: Deluxe Reverb® and Deluxe® Equivalent to #125A1A & #041318							
<b>P-TF22848</b>	35	4	4000CT	4	3.5", vert.	2.4	39.95
Replacement for: Pro Reverb®, Tremolux®, Vibrolux®, Bandmaster® and Vibroverb®, #125A6A & #022848							
<b>P-TF22855</b>	50	2	4000CT	2	2.125" x 3.5", vert.	4.5	64.95
Replacement for: Tweed Bassman®, Super Reverb® and Concert® Equivalent to #125A9A & #022855							
<b>P-TF22871</b>	50	4	4200CT	4	2" x 3.5", vert.	4.5	63.95
Replacement for: Bassman® Equivalent to #125A13A & #022871							
<b>P-TF18343</b>	50	2, 4, 8	4200CT	2, 4, 8	2" x 3.5", vert.	4.7	64.95
Replacement for: 50 watt amps Equivalent to #125A13A & #018343							
<b>P-TF22899</b>	100	4	2,000CT	4	2.25" x 3.5", vert.	5.4	65.95
Replacement for: Dual Showman®, Twin Reverb® and Bassman 100® Equivalent to #125A29A & #022899							

### Original Fender® Output Transformers

	Wattage	Ohms	Pri. Imp. (ohms)	Sec. Imp. (ohms)	Mounting Centers	Weight	Price
<b>P-TF49969</b>	15	8	6,950CT	8	2.75", vert.	0.8	31.95
For: Blues Jr.®							
<b>P-TF50438</b>	40	4, 8	4,250CT	4, 8	2" x 2.2", vert.	3.4	41.95
For: Hot Rod Deluxe®							
<b>P-TF41754</b>	60	2, 4, 8	4,200CT	2, 4, 8	2" x 3", vert.		71.95
For: Hot Rod DeVille®							

### Replacement Output Transformers for Marshall™ Amps

Built to vintage specs with exact interleave ratios and materials. Great for upgrading later issue Marshall™ amps. Gives great classic sound. Good replacement for most JMP, JCM 800's and JCM 900's. For EL34!

	Rating	Pri. Imp. (ohms)	Sec. Imp. (ohms)	Weight	Price
<b>P-TM050</b>	50w Output	3200CT	4,8,16	5.0	\$69.95
<b>P-TM0100</b>	100w Output	1700CT	4,8,16	8.0	74.95

### Original Marshall™ Output Transformer

<b>P-TMJTM300</b>	30w Output	8,16	For: Marshall® JTM 30	2.1	\$69.95
<b>P-TM9500</b>	50w Output	4,8,16	For: Marshall® JCM 900 50w	4.5	76.50
<b>P-TM450</b>	45w Output	4,8,16	For: Marshall® JTM 45	5.2	71.95
<b>P-TM91000</b>	100w Output	4,8,16	For: Marshall® JCM 900 100w	7.2	116.95

### Vox® Output Transformers

	Wattage	Sec. Imp. (ohms)	Mounting Centers	Weight	Price
<b>P-TV015</b>	15	8	1.875" x 2.375"	3.3	\$69.95
For: Vox® AC15 output					
<b>P-TV030R</b>	30	8,16	2.25" x 2.5"	5.4	99.95
For: Vox® AC30 reissue output					
<b>P-TV030V</b>	30	8,16	2.5" x 2.25"	4.8	99.95
For: Vox® AC30 vintage output					

### Reverb Driver for Fender® Amps

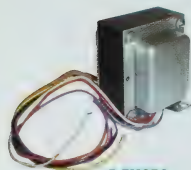
	Wattage	Pri. Imp. (ohms)	Sec. Imp. (ohms)	Mounting Centers	Weight	Price
<b>P-TF22921</b>	3.5	2500	8	1.75", vert.	0.4	\$13.95
For: All Fender® amps with reverb. Equivalent to #125A20B & #022921						



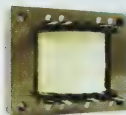
P-TF22855



P-TF49969



P-TM050



P-TMJTM300



P-TV030V



P-T22921

# GUITAR AMP



# POWER

## Fully Rated Power Transformer Replacements for Fender® Amplifiers

Made precisely to the original Fender® specifications. Drop-in replacements for vintage and current Fender® reissue amps. Made in the USA.

	Wattage	Rating		Mounting Centers	Weight	Price
P-TF22772	12	325-0-325V 70mA	6.3V, 2A 5V, 2A	2" x 2.5", horz.	2.9	\$52.50
Replacement for: Princeton®, Princeton Reverb®, Champ®, Vibro Champ® and early Tweed Deluxe® Equivalent to #125P1B & #022772						
P-TF41316	25	330-0-330V 120mA (50V tap)	6.3V, 3A 5V, 3A	2.25" x 2.875", horz.	5.4	\$59.95
Replacement for: Deluxe Reverb® and Deluxe® Equivalent to #125P23B & #041316						
P-TF22723	35	325-0-325V 180mA (50V tap)	6.3V, 4A 5V, 3A	2.5" x 3.125", horz.	6.5	\$63.95
Replacement for: Vibrolux®, late Tremolux® Equivalent to #125P26A & #036483 & #022723						
P-TF22798	50	325-0-325V 200mA (50V tap)	6.3V, 4A 5V, 3A	2.75" x 3.5", horz.	7.5	\$79.95
Replacement for: Super Reverb®, Pro Reverb®, Bandmaster Reverb®, Vibroverb® and Tweed Bassman® Equivalent to #125P5D & #022798						
P-TF22814	50	420-0-420V 240mA (53V tap)	6.3V, 3.15A	2.75" x 3.5", horz.	7.3	\$64.95
Replacement for: Bassman®, Concert®, Brown Pro® and Bandmaster® Equivalent to #125P7D & #022814						
P-TF22756	100	420-0-420V 450mA (60V tap)	6.5V, 5.4A	3.75" x 3", horz.	10.9	\$73.50
Replacement for: Twin Reverb®, Dual Showman®, Late Showman® and Bassman 100® Equivalent to #125P34A & #022756						
P-TF47609	-	*340VDC @ 0.7mA 6.5V @ 1A		2" x 2.5", horz.	-	\$24.95
Replacement for: Power transformer for stand alone Fender Reverb® (1963 Tube Reverb)						

\*DC Voltages are after rectification.

## Original Fender® Power Transformers

P-TF49967	15	*330VDC @ 68mA 6.6VAC, 2.6A ±25.8VDC, 34mA	2" x 2", horz.	2.6	\$52.50
For: Blues Jr.® Equivalent to #049967					
P-TF36958	-	*440VDC @ 65.7mA 6.6VAC, 3.75A -53.6VDC @ 1.58mA		4.3	\$59.95
For: Hot Rod Deluxe®					
P-TF41752	-	*450VDC @ 270mA 6.3VAC, 3.75A -72.2VDC @ 1.5mA or -33.4VDC @ 59mA		7.4	\$99.95
For: Hot Rod DeVille®					

\*DC Voltages are after rectification.

## Replacement Power Transformers for Marshall™ Amps

Built to vintage specs with exact interleave ratios and materials. Great for upgrading later issue Marshall™ amps.

Gives great classic sound. Good replacement for most JMP, JCM 800's and JCM 900's. For EL34!

	Rating		Weight	Price
P-TM-P50	50W	For: Marshall® JCM 800 and JMP's	8.6	\$89.95
P-TM-P100	100W	For: Marshall® JCM 800 and JMP's	8.4	\$94.95

## Original Marshall™ Power Transformers

	Rating		Weight	Price
P-TMJTM30P	30W	For: Marshall® JTM 30	3.2	\$74.95
P-TM9100P	100W	For: Marshall® JCM 900 100w	8.0	\$125.95
P-TM950P	50W	For: Marshall® JCM 900 50w	7.3	\$112.50
P-TM45P	45W	For: Marshall® JTM 45	7.3	\$124.95

## Vox® Power Transformers

	Pri. Voltage (VAC)		Weight	Price
P-TVP30R	120/240	For: Vox® AC30 reissue power	5.4	\$79.95
P-TVP15	120/240	For: Vox® AC15 power	4.6	\$69.95
P-TVP30V	100/120/220/230/240	For: Vox® AC30 vintage power	8.8	\$134.95

## Replacement Chokes for Fender® Amplifiers

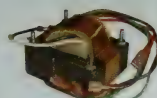
Made precisely to the original Fender® specs. Drop-in replacements for

Original Fender® amps and current Fender® reissue amps. Made in the USA.

	DC Current	Mounting Centers	Weight	Price
P-CF22707	50mA DC	2", vert.	0.4	\$13.95
Replacement for: Deluxe® and Vibrolux®, Reverb units, late Tremolux® Equivalent to #125C3A & #022707				
P-CF22699	90mA DC	2.875", vert.	1.0	\$14.95
Replacement for: Twin®, Super®, Dual Showman®, Bandmaster®, Bassman®, Concert®, Pro® Equivalent to #125C1A & #022699				

## Replacement Chokes for Vox® Amps

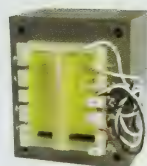
	Mounting Centers	Weight	Price
P-TVC30R	1.75" x 1.875"	2.3	\$39.95
Replacement for: Vox® AC30 reissue choke			
P-TVC30V	3.5"	2.5	\$88.95
Replacement for: Vox® AC30 vintage choke			



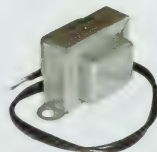
P-TF49967



P-TF41316



P-TM9100P



P-CF22707

# GUITAR AMP

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The examples of possible combinations are to help you narrow down the choices of transformers for your favorite tube type. How you operate the tubes (push-pull, push-pull parallel, ultra-linear, etc.) will change the optimum plate to plate load impedance. A tube manual or technical data sheet should be consulted before choosing an output transformer.

## OUTPUT CLASSIC TUBE

Hammond offers both single-ended and push-pull audiophile tube output transformers in their 1600 series. All specifications shown are at full rated power. All include multiple interleaved windings to maximize high frequency response and all (except for the 1650E and 1650G) include Ultra-Linear taps at the 40% point. High grade laminations (M6) and high quality copper wire are used. The core is varnished and oven baked to ensure quiet operation, even at high ambient temperature. Hammond achieves a classic look to complement any amplifier design by finishing the end bells with a tough, low gloss, black powder paint finish to resist scratching. End bells include knockouts for optional above chassis wiring.

## 1600 SERIES PUSH-PULL

Enclosed (shielded), 4 slot, above chassis Type "X" mounting. Frequency response 30 Hz to 30kHz at full rated power ( $\pm 1$  dB max. ref. 1kHz) minimum. All units have secondary impedance of 4/8/16 ohms. Flexible 8" leads.

	Watts	Primary Imp. (ohms)	Mounting Centers(")	lbs.	Suggested Tube Types	Price
P-T1608	10	8,000CT	1.69" x 2", vert	2.4	6AQ5, 6V6, 6BQ5/EL84	\$34.95
P-T1609	10	10,000CT	1.69" x 2", vert	2.4	6AQ5, 6V6, 6BQ5/EL84	34.95
P-T1615	15	5,000CT	2.19" x 2", vert	2.8	2A3, 6A3, 6AQ5, 6B4G, 6L6, 6V6	39.45
P-T1620	20	6,600CT	2.44" x 2", vert	3.8	6AQ5, 6L6, 6V6	39.95
P-T1650F	25	7,600CT	2.44" x 2", vert	3.8	6L6GC, 6V6, 807, 5881, EL34	52.95
P-T1645*	30	5,000CT	2.69" x 2", vert	4.2	6L6GC, 6V6, 807, 5881, EL34	52.95
P-T1650E	15	8,000CT	2.5" x 2", vert.	4.0	6AQ5, 6V6, 6BQ5/EL84	57.95
P-T1650G	35	6,600CT	2.25" x 2.5", vert	4.6	6L6GC, 6V6, 807, 5881, EL34	57.95
P-T1650H	40	6,600CT	2.69" x 2.5", vert	6.0	6L6GC, 807, 5881, EL34	81.50
P-T1650K	50	3,400CT	2.69" x 2.5", vert	6.0	6L6GC, 807, 5881, EL34, 6146B, 6550	84.50
P-T1650N	60	4,300CT	2.94" x 2.5", vert	6.8	6L6GC, 807, 5881, EL34, 6146B, 6550, KT88	75.95
P-T1650P	60	6,600CT	2.94" x 2.5", vert	6.6	6L6GC, 807, 5881, EL34, 6146B, 6550	75.95
P-T1650R	100	5,000CT	3.06" x 3", vert	8.6	807, 5881, EL34, 6146B, 6550, KT88	78.50
P-T1650T	120	1,900CT	3.31" x 3", vert	9.8	6L6GC, 5881, EL34, 6550, KT88	90.95
P-T1650W	280	1,900CT	5.88" x 3.5", vert	27.4	6L6GC, 5881, EL34, 6550, KT88	174.95

\*70V secondary winding in addition to the 4,8,16

## 1600 SERIES SINGLE ENDED

Enclosed (shielded), 4 slot, above chassis Type "X" mounting. Frequency response at least 20 Hz to 20 kHz at full rated power (+/- 1db max. ref. 1kHz) minimum. All units have mount centers of 3.81" x 3", and secondary impedance of 4/8/16 ohms. Flexible 8" leads.

	Watts	Primary Imp. (ohms)	Max D.C. Bias	lbs.	Suggested Triodes	Suggested Pentodes	Price
P-T1627SE	25	2,500	160ma	11.6	2A3, 6A3, 6B4G, 300B	6L6, 807, 5881, 6550	\$92.95
P-T1628SE	25	5,000	120ma	11.6	211, 300B	6AQ5, 6V6, 6L6	92.95
P-T1629SE	25	6,500	100ma	11.8	807, 5881, 6550, EL84		92.95
P-T1640SE	25	1,250	200ma	12.2	811A, 572B, 5V572-30		92.95
					Parallel 2A3, 6A3, 6B4G, 300B	Parallel 6550, EL34	

## ROTARY IMPEDANCE SELECTOR

For Use With Hammond 1600 Series Transformers

P-H1600

\$14.95

Hammond 1600 series transformers all provide secondary impedances of 4, 8 or 16 ohms, but due to the unique wiring of the secondary, the impedance cannot be changed without rewiring... Until now. We now offer a selector switch, pre-wired and complete with 1/4" jack output. Follow simple instructions provided to wire transformer secondary to switch, mount switch and 1/4" jack in separate 3/8" diameter holes in chassis and you'll easily be able to select output impedance as needed.



P-T1609



P-T1640



P-T1600



# HAMMOND

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## RADIOLA REPLACEMENT

Developed in response to requests from RCA Radiola III-A collectors. The original transformers are usually found with "open" windings due to the fine wire and high turns used, coupled with age. This is a universal replacement type - it will replace any of the three audio transformers used (1st audio driver, second audio - phase splitter stage or output transformer), by correctly connecting the 5 lugs. A pin out and connection diagram is included. The cases from the old transformer will fit this new unit. The terminal board is a duplicate of the original.

**P-T118944 \$29.95**

**KEY FEATURES** Primary: 4,000 turns, #41 wire (lugs 4 & 2) Secondary: 12,000 turns C.T., #41 wire (lugs 5 & 1, lug 3 is C.T. connection) Termination: Solder lugs on a 1-3/4" x 1" terminal board with 4-5" connecting leads Size: 1-7/8" long x 1-11/16" wide x 1-3/8" deep Lamination Core Size: 5/8" x 1/2". Weight: 7 oz

## COLLINS REPLACEMENT

**P-T119DA \$18.45**

Built in response to requests from the "Collins Collectors Association"

**Isolation Unit:** (i.e. separate primary and secondary)

**Primary:** 600 ohm (with 6" wire leads)

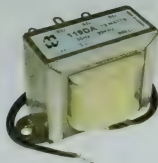
**Secondary:** 8 ohm with 4 ohm center tap (with solder lugs)

**Power:** Rated at 12 watts

**Frequency Response:** 30 Hz-20kHz

**Mounting:** 2-hole U-bracket mount on 2.8125" mounting centers

**Weight:** 1.3 lbs



## UNIVERSAL OUTPUT

Multi-tap transformers have tables provided to choose pre-calculated impedance ratios. Secondary impedances from 1.5 to 15 ohms. Leads on primary, solder lugs on secondary. U-bracket mounting. For single or push-pull applications.

	Manufacture	Output Watts	Primary Z Ohms	Mounting Centers	lbs.	Price
P-T125A	Hammond	3	1200 - 25,000	1.75"	0.2	\$25.95
P-T125C	Hammond	8	1200 - 25,000	2.38"	0.5	21.95
P-T291	AES	8	4000 - 10,000	2.375"	0.6	16.75
P-T125E	Hammond	15	1200 - 25,000	3.125"	1.6	28.95

P-T125E

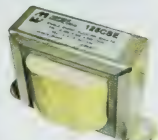
## MULTIPLE IMPEDANCE AUDIO MATCHING

Designed for general purpose or replacement use in push-pull output circuits. Frequency response 150 Hz to 15kHz

	Manufacture	Output Watts	Primary	Secondary	Centers	lbs.	Price
P-T125H	Hammond	8	10K CT	2,4,8	2.36" u-bracket	0.6	19.95
P-T125J	Hammond	8	2.5K or 4K CT	6/8 or 3/2/4	2.81" u-bracket	1.0	17.45

## UNIVERSAL SINGLE ENDED TUBE OUTPUT

	Audio Watts	Max. D.C. Bias (ma)	Mounting Centers	lbs.	Price
P-T125ASE	3	25	2.38"	0.6	\$31.95
P-T125BSE	5	45	2.81"	1.0	32.95
P-T125CSE	8	60	3.13"	1.6	27.95
P-T125DSE	10	70	3.56"	2.2	31.95
P-T125ESE	15	80	4.0"	3.2	35.95
P-T125FSE	20	90	3.13" x 2.25"	4.5	47.95
P-T125GSE	25	100	3.45" x 2.5"	6.0	56.95



P-T125CSE



P-T125FSE

## AUDIO INTERSTAGE

		Imp.-Ohms Pri. to Sec.	Mounting Centers	lbs.	Price
P-T124D	Push-Pull plate to push-pull grids (25 max DC bias)	7,000-15,800	2.375"	0.6	\$18.95
P-T124B*	Single ended or push-pull, center-tapped secondary	10,000-90,000	2.0"	0.4	24.95
P-T156	Equivalent to Stancor A53-C. 1:3 ratio overall				
	Center tapped secondary may be used for push-pull grids	10,000-90,000	2.0"	0.4	15.70
P-T431	Coil assembly only for above (P-T156). Use your own iron to preserve mechanical fit. Coil window is 1/2" x 1/2"			0.07	13.75
P-T124E	Multi-purpose, center-tapped primary				
	Center-tapped secondary providing 1:1.5/1:3/1:6 ratio	15,000-135,000	2.5"	1.0	23.95
P-TA-8037	5K primary approx. 3 watts. Freq. response = 100Hz to 15KHz	3.2 ohm secondary	2.0"	0.4	9.95

\* 49% nickel laminations for greater fidelity



P-T124B



P-T431

# TRANSFORMERS

Info@tubesandmore.com • FAX: 480.820.4643 or toll free fax: 800.706.6789

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## POWER

117 Volt primary, 50/60 Hz. Provided with color-coded leads.

We are a full stocking distributor for Hammond Manufacturing™.  
See [www.hammondmfg.com](http://www.hammondmfg.com) for additional specifications.  
Don't see what you need here? We can special order any Hammond product.

**NOTE:**  
It is important that every receiver be carefully checked before a burned out transformer is replaced. Too often, some other defect, such as a defective tube, electrolytic condenser, or a partial circuit short has caused the original burnout and the replacement transformer is also ruined before the real cause is found and remedied!!!



**P-T270DAZ**  
horizontal mount



**P-T270HX**  
vertical mount

	Rating				Mounting Centers	Weight	Price
P-T263AX	100-0-100V	100mA	5V, 2A		1.5" x 1.57" vert.	1.4	\$32.95
P-T442*	125V	15mA	12.6V, .3A		2", U-bracket	0.7	16.95
P-T269AX	125-0-125V	100mA	6.3V, 2A		1.56" x 1.5", vert.	1.6	32.95
P-T269EX	190-0-190	65mA	6.3V, 2.5A		1.56" x 1.75", vert.	1.8	30.95
P-T269JX	250-0-250V	60mA	6.3V, 2.5A		1.56" x 1.75", vert.	1.8	33.95
P-T270CAX	250-0-250V	70mA	5V, 2A	6.3VCT, 2.5A	2" x 2.0625", vert.	3.2	40.95
P-T270CBX	250-0-250V	100mA	5V, 2A	6.3V, 3A	2" x 2.0625", vert.	3.2	62.95
P-T270DAX	260-0-260V	90mA	6.3V, 3.5A		2" x 2.125", vert.	3.4	39.95
P-T270DAZ	260-0-260V	90mA	6.3V, 3.5A		2.25" x 2.875", horiz.	3.8	39.95
P-T270BXX	275-0-275V	50mA	5V, 2A	6.3V, 2A	1.69" x 2", vert.	2.2	36.95
P-T270CX	275-0-275V	65mA	6.3V, .6A	6.3V, 2.5A	1.69" x 2", vert.	2.4	39.95
P-T270DX	275-0-275V	90mA	5V, 2A	6.3, 3A	1.94" x 2" vert.	2.8	40.95
P-T270FX	275-0-275V	150mA	5V, 3A	6.3VCT, 5A	2.19" x 2.5", vert.	4.6	47.95
P-T270HXX	275-0-275V	200mA	5VCT, 3A	6.3VCT, 6A	2.69" x 2.5", vert.	5.8	59.95
P-T272BX	300-0-300V	100mA	5V, 2A	6.3V, 3A	2.19" x 2", vert.	3.2	42.95
P-T272DX	300-0-300V	125mA	5V, 3A	6.3V, 4A	2.69" x 2", vert.	3.0	46.95
P-T272FX	300-0-300V	150mA	5VCT, 3A	6.3VCT, 5A	2.19" x 2.5", vert.	4.6	54.95
P-T272HXX	300-0-300V	200mA	5VCT, 3A	6.3VCT, 6A	2.5" x 2.69", vert.	6.2	60.95
P-T272JX	300-0-300V	250mA	5VCT, 4A	6.3VCT, 8A	2.81" x 3", vert.	7.8	64.95
P-T272X	310-0-310V	70mA	5V, 2A	6.3V, 2.4A	1.94" x 2", vert.	2.9	41.95
P-T273AZ	325-0-325V	40mA	5V, 2A	6.3VCT, 2A	2" x 2", horiz.	2.4	43.95
P-T273CZ	325-0-325V	150mA	5V, 3A	6.3VCT, 5A	2.5" x 2.5", vert.	5.4	67.95
P-T273DX	350-0-350V	90mA	5V, 2A	6.3VCT, 3A	2.25" x 2.81", horiz.	4.6	56.95
P-T273BX	350-0-350V	175mA	5V, 3A	6.3VCT, 5A	2.69" x 2.5", vert.	5.8	55.95
P-T273DX	350-0-350V	90mA	5V, 2A	6.3VCT, 3A	2.25" x 2.38", vert.	4.6	56.95
P-T274AX	360-0-360V	120mA	5V, 3A	6.3VCT, 3.5A	2.5" x 2.44", vert.	5.4	51.95
P-T274BX	375-0-375V	175mA	5VCT, 3A	6.3VCT, 6A	2.69" x 2.5", vert.	6.2	59.95
P-T278X	400-0-400V	200mA	5VCT, 3A	6.3VCT, 6A	2.69" x 2.5", vert.	7.0	74.95
P-T278CX	400-0-400V	465mA	6.3VCT, 6A		3.81" x 3", vert.	12.4	79.95
P-T279X	425-0-425V	150mA	5VCT, 3A	6.3VCT, 5A	2.69" x 2.5", vert.	6.0	68.95
P-T282X	500-0-500V	200mA	5VCT, 3A	6.3VCT, 6A	3.31" x 3", vert.	9.4	81.95

\* AES Manufacture; Not Hammond Manufacture.

## CLASSIC 300 SERIES POWER

Picks up where the 200 series leaves off! High quality, high voltage! "World Power," with primary voltages of 100, 110, 120, 200, 220, 240 V @50/60 Hz. All have a secondary bias tap at 50 VAC. Concentric wound for low stray field and low noise. Hipot tested to 2500 VAC. Epoxy painted to match 1650 series output transformers. The P-T300BX is designed specifically for 300B's, the P-T302AX is designed specifically for 2A3's.

	VA	Rating				Mounting Centers	Weight	Price
P-T369AX	40	125-0-125V	100mA	6.3VCT, 2A		1.69" x 2" vert	2.4	\$47.95
P-T363CX	119	180-0-180V	250mA	5VCT, 3A		2.44" x 2.5" vert	5.2	71.95
P-T369EX	45	190-0-190V	65mA	6.3VCT, 2.5A		1.69" x 2" vert	2.6	44.95
P-T370BX	55	275-0-275V	50mA	5VCT, 2A	6.3VCT, 2A	1.94" x 2" vert	3.0	52.95
P-T370FX	142	275-0-275V	150mA	5VCT, 3A	6.3VCT, 5A	2.94" x 2.5" vert	6.0	70.95
P-T370HXX	180	275-0-275V	200mA	5VCT, 3A	6.3VCT, 6A	2.94" x 2.5" vert	6.8	88.95
P-T372BX	98	300-0-300V	100mA	5VCT, 2A	6.3VCT, 3A	2.19" x 2.5" vert	4.4	61.95
P-T372FX	150	300-0-300V	150mA	5VCT, 3A	6.3VCT, 5A	2.94" x 2.5" vert	6.2	79.95
P-T302AX*	198	300-0-300V	200mA	2.5VCT, 2.5A	5VCT, 3A 6.3VCT, 6A	2.81" x 3" vert	8.0	93.95
P-T372JX	243	300-0-300V	250mA	5VCT, 4A	6.3VCT, 8A	3.31" x 3" vert	10.0	95.50
P-T374BX	200	375-0-375V	175mA	5VCT, 3A	6.3VCT, 6A	2.81" x 3" vert	7.8	87.95
P-T378X	273	400-0-400V	200mA	5VCT, 3A	6.3VCT, 6A	3.06" x 3" vert	8.8	110.95
P-T300BX	280	400-0-400V	250mA	5VCT, 1.2A	5VCT, 3A 6.3VCT, 6A	3.81" x 3" vert	11.8	119.95
P-T378CX	465	400-0-400V	465mA	6.3VCT, 6A		3.54" x 3.5" vert	17.6	119.95

\* 4TH FILAMENT=2.5vct, 2.5A.



**P-T370FX**

# HAMMOND



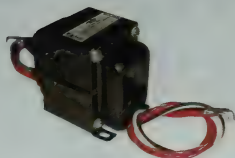
## SPECIAL POWER

### With 2.5v Filament Windings (120v 60Hz Primary)

This transformer has been custom manufactured to provide the replacement needs for early 30's radios. It will work in most 6 and 7 tube sets. Vertical mounting shells, with the leads coming out one side so that horizontal mounting may be used. Provides a separate filament winding for audio output stages but both 2.5V windings can be paralleled for the combined current rating.

	Rating		Mounting Centers	lbs.	Price
P-T143	350-0-350v, 70-90ma* 5v, 3A 2.5V, 7.5A 2.5VCT, 3.5A		2.3125" x 2.5"	4.2	\$59.95

\*Will provide 90MA if 5V winding is used with 2A rectifier



## LOW POWER PLATE & FILAMENT OR BIAS

Primary 115 VAC, 60 Hz. Designed for small power or bias supplies, test equipment, preamps etc.

Models 261C6 and 261G6 can also be used with full wave C.T. rectifiers. Economical, 2-hole (.187") u-bracket, chassis mount. Minimum 5" long leads. • Convenient 6.3 volt filament/auxiliary winding.

	VA Rating	A.C. Secondary #1 RMS	A.C. Filament Sec. #2 RMS	Mounting Centers	lbs.	Price
P-T261C6	17.5	250V C.T. @ 45 ma	6.3V @ 1A	2.81"	1.0	\$29.95
P-T261G6	45	250V C.T. @ 130 ma	6.3V @ 2A	3.56"	2.0	28.95
P-T261M6	83	215V @ 269 ma	6.3V @ 4A	2"	4.0	53.95
P-T262E6	18	120V @ 87 ma	6.3V @ 1.2A	2.81"	1.3	19.95
P-T262F6	26	120V @ 140 ma	6.3V @ 1.5A	3.13"	1.7	21.95



P-T261G6

## FILAMENT

115VAC Primary, 50/60 Hz. Open style, channel bracket, 2-hole chassis mount.

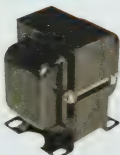
If you require 117/234 V operation we can special order the 266 series for you.

	Rating	Mounting Centers	lbs.	Price
P-T166L2	2.5VCT, 2.5A	2.38"	0.7	\$14.95
P-T166M2	2.5VCT, 3A	2.375"	0.6	10.95
P-T166Q2	2.5VCT, 6A	2.8125"	1.0	15.95
P-T166S2	2.5VCT, 10A	3.125"	1.6	16.95
P-T166L5	5.0VCT, 2A	2.375"	0.8	14.50
P-T167R5*	5.0VCT, 8A	1.44" x 1.75"	1.6	25.95
P-T166MS	5.0VCT, 3A	2.8125"	1.0	10.95
P-T167M5	5.0VCT, 3A	1.31" x 1.5	1.1	19.95
P-T166RS	5.0VCT, 8A	4.0"	3.4	18.50
P-T166L6	6.3VCT, 2A	2.375"	0.8	14.50
P-T166N6	6.3VCT, 4A	2.8125"	1.0	15.50
P-T166Q6	6.3VCT, 6A	3.13"	1.4	21.45
P-T166S6	6.3VCT, 10A	3.5625"	2.2	24.95
P-T167S6	6.3VCT, 10A	1.69" x 2.0"	2.5	28.95
P-T167U6*	6.3VCT, 16A	2.19" x 2.0"	3.4	31.95
P-T166N10	10.0VCT, 4A	3.13"	1.5	21.95
P-T167S10*	10.0VCT, 10A	2.19" x 2.0"	3.4	31.95
P-T167L12*	12.6VCT, 2.5A	1.75" x 1.5"	1.4	19.95
P-T166N12	12.6VCT, 4A	3.125"	1.8	18.95
P-T167G120	120VCT, 0.5A	1.69" x 2.0"	2.5	14.95
P-T167H200	200VCT, 0.87AA	2.44" x 2.5"	5.6	38.95

\*Enclosed style 4 hole chassis mount



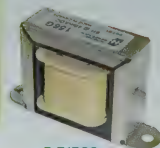
P-T166Q6



P-T167L12

# HAMMOND



P-T156G  
u-frame

## HAMMOND FILTER CHOKES

	Henry Rating	DC Current (mA)	Max. VDC	Resistance in ohms	Mounting Centers	lbs.	Price
P-T193T	0.05	2000	300	0.7	1.69" x 2"	2.5	\$23.95
P-T158T	1	300	400	40	2.81" u-frame	1.5	15.50
P-T156R	1.5	200	400	56	2.375" u-frame	0.7	9.95
P-T154M	2	100	300	175	1.75" u-frame	0.3	8.50
P-T159T	2.5	300	500	43	3.56" u-frame	2.25	20.95
P-T193K	2.6	300	800	21	2.19" x 2"	3.25	34.95
P-T159S	4	225	500	65	3.56" u-frame	2.3	20.25
P-T155H	5	50	400	270	2" u-frame	0.4	10.25
P-T158Q	5	150	400	105	2.8125" u-frame	1.3	16.50
P-T193H	5	200	600	65	1.6875" x 2" vert	2.5	24.75
P-T193L	5	300	800	57	2.4375" x 2.5" vert	5.5	29.95
P-T193P	5	500	800	26	3" x 3.31"	10.3	68.95
P-T155B	6	2000	400	0.3	2" u-frame	0.4	8.95
P-T159Q	7	150	500	100	3.56" u-frame	2.3	20.95
P-T193D	8	150	600	75	2.5" x 2.1875" vert	3.4	28.95
P-T154G	9	40	300	700	1.75" u-frame	0.2	8.95
P-T156G	9	40	400	300	2.38" u-frame	0.6	9.95
P-T157J	10	65	400	205	2.8125" u-frame	1.0	18.25
P-TC-7X*	10	90	400	270	2.8125" u-frame	1.4	17.95
P-T158M	10	100	400	195	2.8125" u-frame	1.2	16.50
P-T159P	10	125	500	155	3.56" u-frame	2.2	20.25
P-T193G	10	150	800	102	1.9375" x 2.5" vert	3.8	42.95
P-T193J	10	200	800	82	2.4375" x 2.5" vert	5.4	39.95
P-T193M	10	300	800	63	3" x 3.3125" vert	10.0	48.95
P-T193Q	10	500	1000	53	4.31" x 3" vert	14.6	63.95
P-T193B	12	100	600	155	1.6875" x 2" vert	2.4	24.50
P-T155J	15	30	400	1026	2" u-frame	0.3	9.95
P-T158L	15	75	400	411	2.8125" u-frame	1.2	16.50
P-T159M	15	100	500	256	3.56" u-frame	2.4	20.95
P-T154E	20	20	300	1666	1.75" u-frame	0.2	9.25
P-T193C	20	100	600	181	2" x 2.1875" vert	2.8	29.50
P-T157G	30	40	400	595	2.180" u-frame	1.0	18.95
P-T155C	60	8	400	2750	2" u-frame	0.4	9.95
P-T159ZC	60	2000	500	0.7	3.56" u-frame	3.56	20.95
P-T156C	150	8	400	3700	2.38" u-frame	0.6	10.95

\*Triad Manufactured

## R.F. CHOKES

3 section windings on ferrite forms approximately 1-1/4" long by 9/16" over windings.  
With axial leads 1-1/2" long. 5% tolerance.

	Mfg.	Inductance	Resistance	Max. DC Current	Price
P-C206	Surplus	1.2mH			\$1.25
P-C1535B	Hammond	2.5 mH	9 ohms	160mA	3.65
P-C1535D	Hammond	5.0 mH	14 ohms	160mA	3.85
P-C1535G	Hammond	10.0 mH	31 ohms	100mA	3.95
P-C1535J	Hammond	25.0 mH	82 ohms	65mA	4.15
P-C1536X*	Hammond	250 mH	0.17 ohms	2.5mA	2.95

\*Hash choke, heavy duty

P-C1536X



P-C206



P-C1535B



CHOKES



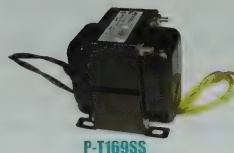
## LINE ISOLATION

	Mfg.	VA Rating	Mounting Centers	lbs.	Price
P-TN-51X	Magnatek	35	3.125, U-bracket	1.8	\$20.95
P-T169SS	Hammond	90	2.19" x 2" vert.	3.4	33.95
P-T169VS	Hammond	175	2.69" x 2.5" vert.	6.0	38.95

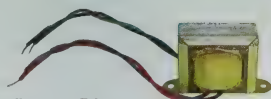
115 volt primary, 60 Hz, 115 volt secondary 60Hz, must be hard wired

P-T171A	Hammond	100	1.88" x 3"	7.2	58.95
P-T171B	Hammond	200	2.38" x 3"	9.4	71.95

115 volt primary, 50/60 Hz, 115 volt secondary 50/60 Hz, vertical mounting. With line cord.



P-T169SS



P-T31

## MISCELLANEOUS

	Mfg.	Type	Power	Primary	Secondary	Response	Centers	lbs.	Price
P-T31	AES	Output	8W	5K ohm single-ended	8 ohm	100Hz-18KHz	2.375" u-bracket	0.6	\$13.60
P-TK2	AES	Output	8W	10K ohm	2.5K ohm CT		1.75" u-bracket	0.2	0.95
P-T983	Surplus	Output	2W	Audio output 2.5K ohm	8 ohm	100Hz-40KHz	1.5" u-frame	0.11	4.95
P-T292	Surplus	Power		120V	140V @ 100mA 28V @ 20mA 10.5V @ 2 amps		3.5"	2.2	17.95

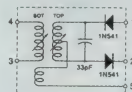
## I.F. TRANSFORMERS

NOS I.F. transformers in 3/4" square cans. Hex slug tuned. While supplies last.

	Hz	Mounting	Price
P-C218	10.7 mHz	Universal PC mount	\$2.95
P-C10D7	10.7 mHz Ratio Det	PC mount	5.95



P-C218



P-C10D7

## I.F. TRANSFORMERS FOR TRANSISTOR RADIOS

	Hz	Description	Price
P-C208R	455 KHz	Red cap- detector	\$0.50
P-C208B	455 KHz	Blue cap- mixer	.50



## UNIVERSAL REPLACEMENT COILS

Will replace broadcast band coils in any tube type radio. Adjustable inductance for perfect tracking. Mount on bus wire leads or in 5/16" hole. Coils are similar to Miller numbers that correspond.

P-C70-A	Antenna Coil	\$7.95
P-C70-OSC	Oscillator Coil	7.95
P-C70-RF	R.F. Coil	7.95



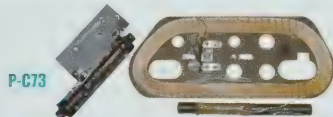
## OSCILLATOR COILS

P-C76	3 lug, 225 $\mu$ H	\$1.95
P-C78	3 lug, 142 $\mu$ H	1.95
P-C77	4 lug, 125 $\mu$ H	1.95



## ANTENNA COILS

P-C72	230 $\mu$ H, 4 1/4" x 1 1/32", Ferrite	\$3.95
P-C73	250 $\mu$ H, 3 1/2" x 9/32", Ferrite	3.95
P-C74	270 $\mu$ H, 6 1/4" x 2 1/4"	3.95
P-C75	650 $\mu$ H, 4 1/4" x 1 1/32", Ferrite	3.95



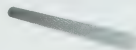
P-C72, P-C75

P-C74

## FERRITE RODS

Rods are made of 61 Ferrite material, and have a broadcast band of 640KC to 1650KC.

P-FR1	.375" $\pm$ 0.020" dia. x 5.00" $\pm$ 0.100" long	\$9.95
P-FR2	.375" $\pm$ 0.020" dia. x 7.50" $\pm$ 0.150" long	10.95



# COILS & TRANSFORMERS



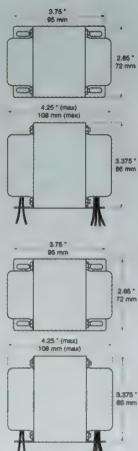
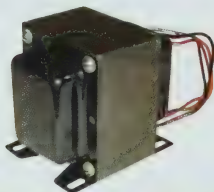
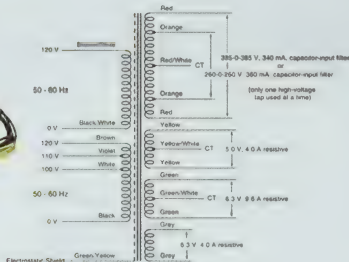
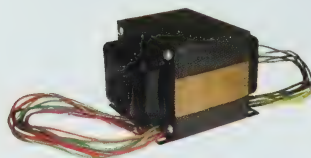
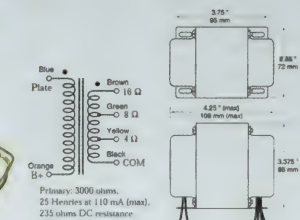
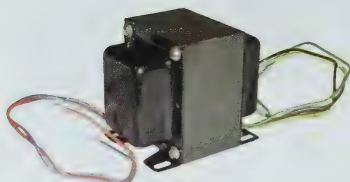
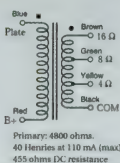
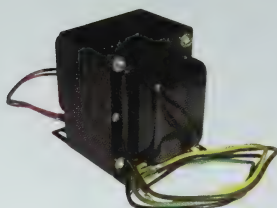
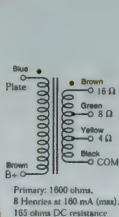
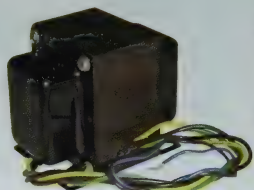
# one electron™

## Single Ended Output & Power Transformers

All Designs by John Atwood

For complete specifications, please visit

[www.one-electron.com/trans.html](http://www.one-electron.com/trans.html)



## ONE ELECTRON

### Single Ended Output

P-TUBT-1 \$84.95

The UBT-1 is a low-impedance single-ended transformer intended for parallel combinations of tubes running at B+ voltages of 250 to 325 volts, such as: two or three EL34s (triode-connected), three 2A3s, two 300Bs, two 6AS7s etc., as well as single sweep tubes run in "enhanced-triode" mode, resulting in 10 to 15 watts of output power. The UBT-1's low impedance gives an exceptionally broad frequency range of 10Hz to over 75KHz (at 1 watt). This transformer has been the basis for excellent-sounding single-ended amps, and is notable for its clean, detailed sound. 6.1 lbs.

### Single Ended Output

P-TUBT-2 \$94.95

The UBT-2 is the same size and power (15 watts) as the UBT-1, but has a higher primary impedance suitable for single tubes running at B+ voltages of 400 to 500 volts, such as: 50, WE 300B, 572-3, etc. The trade-off of a higher impedance transformer is worse bandwidth, but additional interleaving was added in the UBT-2 to extend the frequency range from 10Hz to over 55KHz (at 1 watt). The UBT-2 has also been successfully used as a choke load for shunt-feed output stages. Plate supply voltages over 600 volts are not recommended. 6.1 lbs.

### Single Ended Output

P-TUBT-3 \$94.95

The UBT-3 is the same size and power (15 watts) as the UBT-1 but has a primary impedance suitable for single or paralleled tubes running at B+ voltages of 300 to 400, such as: 2A3, WE 300B, 50 etc. The frequency response is from 10Hz to over 60KHz (at 1 watt). The 3K primary impedance offers lower distortion at only slightly less power in designs using the commonly-specified 2.5K transformers. 6.1 lbs.

## Power

P-TBFT-1B \$134.95

The BFT-1B was designed to power a stereo amplifier using UBT-1s in each channel but will also power an 80 watt push-pull tube amplifier. The BFT-1B is slightly larger than earlier versions of the BFT-1, allowing lower flux density and cooler operation. The tapped high-voltage windings and three filament windings provide flexibility in design. An electrostatic shield between the primaries and secondaries reduces power-line noise coupling. The primary arrangements allows use on virtually any power grid in the world. Overall dimensions: 4.5" x 3.75" x 5.875," (11.4 x 9.5 x 14.9 cm). 16 lbs.

## Audio Chokes

The PRC-1 and PRC-2 audio chokes were designed for shunt-feed single-ended output applications, but are also useful where quality inductive loads are needed or as high-quality filter chokes. They have the same overall dimensions and use the same high-quality M6 laminations as the UBT transformers. Each have two identical windings, allowing series and parallel combinations:

Type	Connection	Inductance	DC Current	Resistance	Impedance
PRC-1	parallel	5.5H	230 mA	32	1K
	series	22H	115 mA	128	4K
PRC-2	parallel	12H	150 mA	76	2.3K
	series	48H	75 mA	304	9K

The table shows the maximum recommended load impedances when used as a shunt-feed choke. As with traditional class-A triode amplifiers, the driving impedance is about 1/2 the load impedance. The recommended load impedances are based on a -1dB response at 20Hz; for better low frequency response, use a choke with higher recommended load (higher inductance). 6.0 lbs.

P-RC-1 \$59.95

P-RC-2 \$9.95

# ONE ELECTRON

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Antique Electronic Supply • 480.820.5411 • [www.tubesandmore.com](http://www.tubesandmore.com)



## REVERB TANKS

World famous **Accutronics** brand reverb tanks in three of the most popular styles with 18 models to choose from. Get the warm, true sound that only spring reverberation can provide. Used in **Fender®**, **Marshall™**, **Ampeg**, **Peavey**, **Music Man**, **SLM** and other amps.

accutronics

REVERB TANKS

### Type 4 Long, 2 Spring

The industry standard for years, the Type 4 is still manufactured using the original Hammond design. Four counter wound and coupled springs deliver superior mechanical performance and the classic sound that helped make the Fender® Twin Reverb amps famous. 16 3/4" long x 4 3/8" wide.

Input/Output ohms	Delay	Used In:	Part	Price
8/2,250	long	Fender®, Marshall™, Ampeg	P-R4AB3C1B	\$22.95
150/2,250	medium	Music Man	P-R4BB2A1B	22.95
150/2,250	long	SLM, Ampeg, Fender® Acoustic	P-R4BB3C1B	22.95
150/2,250	long	Same as above, but vertical connectors down	P-R4BB3C1D	22.95
600/2,250	medium	Peavey Solid State	P-R4EB2C1B	22.95
1,475/2,250	long	Music Man	P-R4FB3A1B	22.95
1,475/2,250	long	Ampeg	P-R4FB3D1B	22.95

### Type 8 Short, 3 Spring

Designed for applications in which overall sound quality is important and a compact package is required. Small in size, this three spring reverb approaches the rich textural quality of larger reverb units. 9 3/4" long x 3 3/8" wide.

Input/Output ohms	Delay	Used In:	Part	Price
10/2,575	medium	Mesa Boogie	P-R8AB2A1B	\$21.95
190/2,575	medium	SLM	P-R8BB2A1B	21.95
190/2,575	medium	Rivera	P-R8BB3D1B	21.95
310/2,575	medium	Marshall™, horizontal open side down	P-R8DB2C1B	21.95
310/2,575	medium	Marshall™, vertical connectors down	P-R8DB2C1D	21.95
800/2,575	medium	Fender®, Marshall™, Peavey	P-R8EB2C1B	21.95

### Type 9 Long, 3 Spring

Six springs, counter wound, coupled and placed in parallel, combine to create the fullest, richest reverb effect throughout the full range of musical sound. Ideally suited for keyboard, sound reinforcement and pedal steel applications. 16 3/4" long x 4 3/8" wide.

Input/Output ohms	Delay	Used In:	Part	Price
10/2,575	medium	Mesa Boogie, Fender®	P-R9AB2A1B	\$24.95
10/2,575	medium	Fender®, Mesa Boogie	P-R9AB2C1B	24.95
10/2,575	long	Fender®	P-R9AB3C1B	24.95
800/2,575	medium	Peavey	P-R9EB2C1B	24.95
1,925/2,575	medium	Fender®, Peavey, Music Man	P-R9FB2A1C	24.95

### Reverb Tank Bags

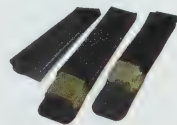
Handmade single-ply black Tolex reverb tank bags. Replacement for Fender® and other amps.

Fits 17" tanks	P-RBAG-17	\$10.95
Insert bag for greater isolation. Liner for 17" tanks to make a 2-ply bag	P-RBAG-17LNR	6.95
Fits 9" tanks	P-RBAG-9	9.95

### Right Angle RCA Cables

For reverb tanks and other electronic devices.

3 foot cable	S-H273	\$2.25
6 foot cable	S-H276	2.75



# REVERB TANKS

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## FP Type Capacitors

High voltage, electrolytic can capacitors, also known as "twist-lock" or "FP" capacitors combine the convenience of multi-section design with easy mounting. With the transfer of FP capacitor manufacturing equipment, (much of it built by Mallory, the inventor of the FP type), to CE Manufacturing LLC, customers can be assured of a quality American-made product without the fear of obsolescence. These capacitors are especially applicable to new designs in the growing market of vacuum-tube audio and musical equipment manufacturing as well as in the industrial electronics industry.

**CE Manufacturing**  
Since 1966



	Capacity(μF)@Volts	Diameter x Length	Price
C-EC40X3-250	40/40/40@250	1" x 3"	\$28.95
C-EC50X3-250	50/50/50@250	1" x 3"	28.95
C-EC50X4-350	50/50/50/50@350	1 3/8" x 2 1/2"	33.95
C-EC20-20-450	20/20@450	1" x 2"	26.95
C-EC20X4-475	20/20/20/20@475	1 3/8" x 2"	29.95
C-EC30-30-10	30/30/30/10@475	1 3/8" x 3 1/2"	31.95
C-EC100-100-500	100/100@500	1 3/8" x 4"	33.95
C-EC40-20-20	40/20/20@500	1 3/8" x 3"	28.95
C-EC30-20X3-525	30/20/20/20@525	1 3/8" x 3 1/2"	32.95
C-EC30X3-525	30/30/30@525	1 3/8" x 3"	31.95
C-EC4020X2-525	40/40/20/20@525	1 3/8" x 3"	33.95
C-EC40-20X3-525	40/20/20/20@525	1 3/8" x 2 1/2"	33.95
C-EC40X3-525	40/40/40@525	1 3/8" x 3"	33.95
C-EC80-40-30-20	80/40/30/20@525	1 3/8" x 3"	33.95

## Twist Mount Can Mounting Plate

Phenolic insulator or metal plate for mounting FP type can capacitors

S-H121	1" diameter can insulator	\$1.40
S-H121M	1" diameter can metal plate	1.75
S-H120	1 3/8" diameter can insulator	1.40

## F & T High Grade Multisection Electrolytic Can Capacitors

Made in Germany

	Capacity(μF)@Volts	Diameter x Length	Mounting	Price
C-EC16-16-450FT	16/16@450	1 3/8" x 2"	Clamp required	\$10.95
C-EC32-32-500FT	32/32@500	1 3/8" x 2"	Clamp required	10.95
C-EC50-50-500FT	50/50@500	1 3/8" x 2"	Clamp required	12.95
C-EC100X2-500FT	100/100@500	1 3/8" x 2"	Clamp required	18.95

## JJ Capacitors

Great for use in Marshall™ amplifiers. Clamp Required.

	Capacity(μF)@Volts	Diameter x Length	Price
C-EC220-385*	220@385	1 3/16" x 2"	\$7.95
C-EC550-385	550@385	1 3/8" x 3 1/2"	9.95
C-EC800-385	800@385	1 3/8" x 3 1/2"	10.95
C-EC32-32-500	32/32@500	1 3/8" x 2"	8.95
C-EC50-50-500	50/50@500	1 3/8" x 2"	9.95
C-EC100X2-500	100/100@500	1 3/8" x 2 7/8"	11.95
C-EC40-20X3-500**	40/20/20@500	1 5/8" x 2"	13.95

\*PC Mount, no clamp required

\*\* Can use S-H128 mounting clamp

## Can Capacitor Mounting Clamp

Clamp for mounting electrolytic capacitor cans in vertical position.

Supplied with #6-32 screw and nut.

S-H123	1" diameter	\$1.95
S-H122	1 3/8" diameter	1.95
S-H124	1 3/4" diameter	1.95
S-H128	1 1/2" diameter	1.95
S-H125	2" diameter	1.95

## Can Capacitor Specials

NOS. Subject to stock on hand. FP is a twist lock, PFP is pc mount which can be used as a twist mount.

	Capacity(μF)@Volts	Type & Size	Price
C-EC200-150	200/150@350	Nippon Chemi-con PFP, 1 3/8" x 4 1/2"	\$0.95
C-EC10-10-100	10@300, 10@250, 100@15	FP, 1" x 2 1/2"	1.95
C-EC40-30-10-50	40@400, 30@350, 10@300, 50@25	FP, 1 3/8" x 2"	5.95



# CAN CAPACITORS

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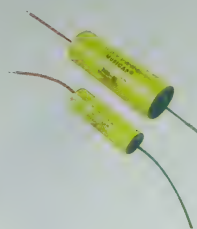


## MUSCAPS® by Novland - Coupling Capacitors-Film & Foil Polypropylene

22 awg. silver-plated teflon insulated axial leads; Round case.  $\pm 5\%$  tolerance

	Capacity( $\mu$ F)/Volts	Diameter x Length	Price
C-H1-200	1.0@200	0.68" x 2.00"	\$14.95
C-H3-200	3.0@200	0.92" x 2.88"	25.85
C-HD1-400	0.1@400	0.41" x 1.28"	8.55
C-HD15-400	0.15@400	0.43" x 1.25"	10.30
C-HD22-400	0.22@400	0.55" x 1.50"	11.20
C-HD47-400	0.47@400	0.59" x 2.00"	12.60
C-H2-400	2.0@400	0.98" x 3.00"	25.85
C-HD1-600	0.1@600	0.50" x 1.75"	11.40
C-HD22-600	0.22@600	0.62" x 2.00"	14.25
C-HD33-600	0.33@600	0.57" x 2.25"	17.75
C-HD47-600	0.47@600	0.80" x 2.50"	20.95
C-HD022-1000	0.022@1000	0.44" x 1.25"	9.65
C-HD047-1000	0.047@1000	0.54" x 1.75"	11.95
C-HD01-1600	0.01@1600	0.39" x 1.17"	9.65

HOVLAND

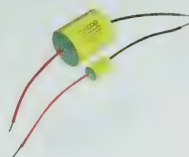


Note: for signal path applications:  
green = "in" and red = "out"

## Auricap High resolution capacitors

Tolerance- $\pm 10\%$	Capacity( $\mu$ F)/Volts	Diameter x Length	Price
C-AUD1-450	0.1@450	0.42" x .53"	\$8.05
C-AUD22-450	0.22@450	0.50" x .60"	8.50
C-AUD33-450	0.33@450	0.60" x .65"	8.60
C-AUD47-450	0.47@450	0.60" x .78"	8.95
C-AUD68-450	0.68@450	0.69" x .87"	9.85
C-AU1-450	1.0@450	0.77" x .90"	10.75
C-AU1D5-450	1.5@450	0.76" x 1.17"	11.65
C-AUD01-600	0.01@600	0.36" x .40"	7.25
C-AUD022-600	0.022@600	0.45" x .53"	7.90
C-AUD047-600	0.047@600	0.52" x .65"	8.80
C-AU1-600	1.0@600	1.27" x 1.40"	19.95

auricap



Note: for signal path applications:  
black = "in", red = "out".

## Solen "Fast" Capacitors

Solen "FAST CAPACITORS" are made of the highest quality aluminum metalized polypropylene film available. They will directly enhance the efficiency of loudspeaker and other electronic equipment.

- Very Low Dielectric Absorption Factor
- Very Low Equivalent Series Resistance
- Very Low Inductance
- Very High Resonant Frequency
- Ultra Linear Impedance Characteristics
- Very Low Dissipation Factor
- Very High Insulation Resistance
- Made In France

250VDC,  $\pm 5\%$  tolerance

$\mu$ F	Size (mm)	1-9	10+
C-FT1-250	1.0 11 x 21	\$2.45	\$2.20
C-FT2D2-250	2.2 14 x 22	3.05	2.75
C-FT3D3-250	3.3 16 x 25	3.45	3.15
C-FT4D7-250	4.7 18 x 27	3.95	3.60
C-FT5D1-250	5.1 19 x 27	4.00	3.65
C-FT6D8-250	6.8 20 x 30	4.50	4.10
C-FT10-250	10 23 x 33	5.30	4.80
C-FT15-250	15 25 x 38	8.30	7.50
C-FT22-250	22 28 x 43	11.10	10.00
C-FT47-250	47 38 x 48	18.00	16.25

630VDC,  $\pm 5\%$  tolerance

$\mu$ F	Size (mm)	1-9	10+
C-FSD1-630	0.1 9 x 17	\$1.85	\$1.65
C-FSD15-630	0.15 9 x 20	1.85	1.65
C-FSD22-630	0.22 11 x 20	1.95	1.75
C-FSD27-630	0.27 11 x 22	1.95	1.75
C-FSD33-630	0.33 12 x 22	1.95	1.75
C-FSD47-630	0.47 13 x 22	2.00	1.85
C-FSD56-630	0.56 14 x 22	2.00	1.85
C-FSD68-630	0.68 15 x 22	2.40	2.15
C-FS1-630	1.0 16 x 25	2.40	2.15
C-FS1D5-630	1.5 18 x 27	2.80	2.50
C-FS2D2-630	2.2 19 x 33	3.00	2.70
C-FS3D3-630	3.3 24 x 33	3.45	3.15
C-FS4D7-630	4.7 25 x 38	4.25	3.85
C-FS6D8-630	6.8 30 x 38	5.15	4.65
C-FS8D2-630	8.2 30 x 45	5.95	5.40
C-FS10-630	10 32 x 45	6.50	5.90
C-FS15-630	15 36 x 53	8.40	7.50
C-FS22-630	22 42 x 58	10.95	9.95
C-FS33-630	33 49 x 63	13.65	12.25
C-FS47-630	47 54 x 72	19.65	17.70

1000VDC,  $\pm 5\%$  tolerance

$\mu$ F	Size (mm)	1-9	10+
C-FSD01-1000	0.01 7 x 16	\$2.00	\$1.80
C-FSD022-1000	0.022 8 x 18	2.05	1.85
C-FSD047-1000	0.047 8 x 18	2.10	1.75



# HIGH END CAPS

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## Sprague Atom

Low current leakage, long shelf life. Ideal for application in guitar amps, musical equipment, TV sets, auto radios, radio-phono combinations, and electronic testing equipment. Operating temperature -40°C to +85°C (6WVDC - 100WVDC) -20°C to +85°C (101WVDC - 600WVDC).

	Capacity(μF)@Volts	Diameter x Length	Price
C-SA25-25	25@25	0.25" x 0.50"	\$1.35
C-SA250-25	250@25	0.38" x 0.94"	1.60
C-SA25-50	25@50	0.25" x 0.68"	1.45
C-SA50-50	50@50	0.31" x 0.81"	1.50
C-SA100-100	100@100	0.44" x 1.50"	2.35
C-SA8-150	8@150	0.38" x 0.81"	1.85
C-SA10-150	10@150	0.38" x 0.81"	1.85
C-SA100-350	100@350	1.0" x 2.63"	5.95
C-SA8-450	8@450	0.50" x 1.75"	2.95
C-SA80-450	80@450	1.0" x 2.63"	6.10
C-SA100-450	100@450	1.25" x 3.125"	7.65
C-SA16-475	16@475	0.88" x 1.63"	4.75
C-SA10-500	10@500	0.75" x 1.69"	4.65
C-SA20-500	20@500	0.88" x 2.25"	4.75
C-SA30-500	30@500	1.0" x 1.63"	5.60
C-SA40-500	40@500	1.0" x 2.38"	5.95
C-SA20-600	20@600	1.0" x 3.87"	9.95

## Illinois Axial Lead

Fresh stock, low leakage tubular electrolytic capacitors. Rated for 85°C operation. Tolerance -20%, +50%.

Part	Capacity(μF)@Volts	Diameter x Length	1-24	25+
C-ET10-350	10@350	0.49" x 1.18"	\$1.59	\$1.39
C-ET10-500	10@500	0.63" x 1.18"	2.95	2.50
C-ET22-500	22@500	0.63" x 1.57"	2.95	2.35
C-ET220-250	220@250	0.625" x 1.625"	4.95	4.25
C-ET4D7-160	4.7@160	0.32" x .63"	1.75	1.58

## F&amp;T High Grade Electrolytic Capacitors Made in Germany

## Single Section

Part	Capacity(μF)@Volts	Diameter x Length	Price
C-ET220-300FT	220@300	1" x 1.875"	\$8.95
C-ET22-500FT	22@500	0.625" x 1.5"	4.50
C-ET47-500FT	47@500	0.8125" x 1.375"	7.95

## Multi Section

Part	Capacity(μF)@Volts	Diameter x Length	Price
C-EM25-25-25	25/25@25	1.0" x 2.0"	\$9.95
C-EM8-8-450	8/8@450	1.0" x 1.5" Used in Vox AC30	9.95
C-EM33-33-450	33/33@450	1.0" x 2.0"	10.95

## Multi &amp; Single Section Tubular Electrolytics Fresh stock - Tolerance -20%, +50%.

	Capacity(μF)@Volts	Diameter x Length	Price
C-ER33-47-160	33/47@160	0.625" x 2.75"	\$6.50
C-ER47-47-160	47/47@160	0.625" x 2.75"	6.50
C-ER47-80-160	47/80@160	1" x 3.625"	7.95
C-ET10-10	10/10@450	0.625" x 2.75"	7.95
C-ER33-33-47	33/33/47@160	1" x 3.625"	8.50
C-ER33-47-22	33/47@160, 22@25	0.625" x 2.75"	8.50
C-ER33-47-47	33/47/47@160	1" x 3.625"	8.50
C-ET16-800	16@800, 900 surge	1.125" x 4.25"	10.50
C-ET25-800	25@800, 900 surge	1.125" x 4.25"	11.75

# ELECTROLYTICS



## Axial Lead Electrolytic

High quality low leakage tubular electrolytic capacitors. Rated for 85°C operation.

Tolerance -20%, +50%.

	Capacity(μF)@Volts	Diameter x Length	1-9	10+
C-ET4700-16	4700@16	0.625" x 1.3125"	\$1.75	\$1.63
C-ET47-35	47@35	0.63" x 1.00"	.50	.45
C-ET10-50	10@50	0.25" x 0.49"	.51	.46
C-ET22-50	22@50	0.25" x 0.63"	.63	.57
C-ET33-50	33@50	0.32" x 0.63"	.63	.57
C-ET47-50	47@50	0.32" x 0.63"	.71	.64
C-ET220-50	220@50	0.375" x 0.875"	.85	.72
C-ET10-160	10@160	0.40" x 0.79"	.83	.75
C-ET22-160	22@160	0.49" x 0.98"	1.03	.93
C-ET33-160	33@160	0.49" x 1.18"	1.41	1.27
C-ET47-160	47@160	0.49" x 1.18"	1.53	1.38
C-ET100-160	100@160	0.63" x 1.18"	2.39	2.15
C-ET220-160	220@160	0.70" x 1.50"	2.39	2.15
C-ET47-250	47@250	0.63" x 1.25"	1.95	1.76
C-ET4D7-350	4.7@350	0.40" x 0.98"	.89	.80
C-ET22-350	22@350	0.63" x 1.18"	1.69	1.52
C-ET33-350	33@350	0.63" x 1.57"	2.02	1.82
C-ET47-350	47@350	0.71" x 1.58"	2.55	2.30
C-ET100-350	100@350	0.98" x 2.36"	2.43	2.19
C-ET4D7-450	4.7@450	0.49" x 1.18"	1.38	1.24
C-ET10-450	10@450	0.63" x 1.18"	1.28	1.15
C-ET22-450	22@450	0.71" x 1.57"	1.99	1.79
C-ET22-450-105*	22@450 105°C	0.625" x 1.5625"	2.10	1.89
C-ET33-450	33@450	0.88" x 1.57"	2.76	2.49
C-ET47-450	47@450	0.88" x 1.96"	3.89	3.50
C-ET100-450	100@450	0.98" x 2.36"	4.62	4.16

\* While Supplies Last

C-ETKIT	Six each of: 22@50, 22@160, 33@160, 100@160, 22@450, 33@450, 47@450, 100@450	\$95.50
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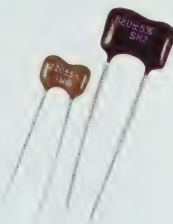
Arrows point to negative or ground end of cap.



## Silver Mica

5% tolerance. Dipped epoxy coating. Capacitance is listed in pico farads.

	Capacity(pF)@Volts	Price
C-SM22	22@500	\$0.62
C-SM47	47@500	.64
C-SM68	68@500	.68
C-SM82	82@500	.70
C-SM100	100@500	.71
C-SM150	150@500	.73
C-SM220	220@500	.75
C-SM250	250@500	.77
C-SM300	300@500	.78
C-SM390	390@500	.95
C-SM500	500@500	.98
C-SM680	680@500	1.08
C-SM820	820@500	1.08
C-SM1000	1000@500	1.08



### Conversions:

To convert pico farads (pF) to micro farads (μF), multiply by .000001 (2200 pF = .0022 μF)

To convert micro farads (μF) to pico farads (pF), multiply by 1,000,000 (.0005 μF = 500 pF)

# CAPACITORS

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**SBE 715P "Orange Drop" Capacitors**

Rated for 85°C operation. Straight radial leads with minimum 1-1/4" length. Polypropylene Film  $\pm 5\%$  tolerance.

	Capacity( $\mu$ F)@Volts	Diameter x Length	1-9	10+
C-RD001-600	.001@600	0.40" x 0.75"	\$0.55	\$0.47
C-RD0022-600	.0022@600	0.40" x 0.75"	.55	.47
C-RD0033-600	.0033@600	0.40" x 0.75"	.55	.47
C-RD0047-600	.0047@600	0.45" x 0.75"	.55	.47
C-RD0056-600	.0056@600	0.45" x 0.75"	.60	.51
C-RD01-600	.01@600	0.45" x 0.95"	.65	.56
C-RD015-600	.015@600	0.50" x 0.95"	.65	.56
C-RD022-600	.022@600	0.55" x 0.95"	.82	.70
C-RD033-600	.033@600	0.55" x 1.30"	.94	.80
C-RD047-600	.047@600	0.60" x 1.30"	.84	.72
C-RD1-600	.1@600	0.75" x 1.30"	1.22	1.04
C-RD22-600	.22@600	0.85" x 1.70"	2.05	1.75
C-RD47-400	.47@400	0.90" x 1.55"	1.99	1.69

Polypropylene film, 1600V,  $\pm 10\%$  tolerance

Good replacement for auto buffer caps

C-SD001-1600	.001@1600	0.50" x 1.30"	\$0.92	\$0.87
C-SD002-1600	.002@1600	0.50" x 1.30"	.92	.87
C-SD003-1600	.003@1600	0.50" x 1.30"	.92	.87
C-SD0039-1600	.0039@1600	0.50" x 1.30"	.92	.87
C-SD0047-1600	.0047@1600	0.50" x 1.30"	.92	.87
C-SD005-1600	.005@1600	0.50" x 1.30"	.92	.87
C-SD006-1600	.006@1600	0.55" x 1.30"	1.06	1.01
C-SD0068-1600	.0068@1600	0.55" x 1.30"	1.06	1.01
C-SD01-1600	.01@1600	0.60" x 1.30"	1.21	1.15
C-SD02-1600	.02@1600	0.65" x 1.70"	1.64	1.56
C-SD03-1600	.03@1600	0.75" x 1.70"	1.78	1.69
C-SD05-1600	.05@1600	0.85" x 1.70"	2.32	2.20

**SBE 716P High Performance "Orange Drop" Capacitors**

The Type 716P Orange Drop is a high performance version of the popular 715P series. They are made from polypropylene film and foil with pure copper leads, making them ideal for high pulse current applications. Rated for 85°C operation.  $\pm 5\%$  tolerance. Straight radial leads with minimum 1-1/4" length.

400 Volt	Capacity( $\mu$ F)@Volts	Diameter x Length	1-9	10+
C-PD0047-400	.0047@400	0.31" x 0.63"	\$0.82	\$0.66
C-PD01-400	.01@400	0.39" x 0.65"	.86	.69
C-PD022-400	.022@400	0.43" x 0.81"	1.03	.83
C-PD033-400	.033@400	0.49" x 0.89"	1.11	.89
C-PD047-400	.047@400	0.51" x 0.84"	1.18	.95
C-PD1-400	.1@400	0.60" x 1.16"	1.37	1.10
C-PD22-400	.22@400	0.75" x 1.15"	1.70	1.36
C-PD47-400	.47@400	0.93" x 1.55"	2.46	1.97

600 Volt	Capacity( $\mu$ F)@Volts	Diameter x Length	1-9	10+
C-PD001-600	.001@600	0.41" x 0.63"	.82	.66
C-PD0022-600	.0022@600	0.39" x 0.65"	.82	.66
C-PD0033-600	.0033@600	0.37" x 0.61"	.83	.67
C-PD0047-600	.0047@600	0.43" x 0.63"	.85	.68
C-PD0056-600	.0056@600	0.43" x 0.63"	.86	.69
C-PD01-600	.01@600	0.50" x 0.65"	.91	.73
C-PD015-600	.015@600	0.51" x 0.85"	1.05	.84
C-PD022-600	.022@600	0.56" x 0.85"	1.14	.92
C-PD033-600	.033@600	0.64" x 0.86"	1.25	1.00
C-PD047-600	.047@600	0.62" x 1.19"	1.31	1.05
C-PD1-600	.1@600	0.82" x 1.18"	1.84	1.48
C-PD22-600	.22@600	0.95" x 1.56"	2.36	1.89

All 600 VDC Orange Drop Caps are rated at 200 VAC@60Hz RMS;

all 1600 VDC caps are rated at 475 VAC@60Hz RMS



# ORANGE DROP



## HOW TO "READ" ORANGE DROP CAPACITORS

Need to determine the value of an Orange Drop cap? Use the code below to determine it's value.

### Manufacturer Part Number

224 = capacitance in pico farads 1st two digits are significant digits, 3rd digit is number of digits that follow

ie: 22 + 0000 = 220,000 pF = .22μF

K = tolerance, F = 1%, J = 5%, K = 10%

600V = voltage rating

9644 = date code ie: 44th week of 1996

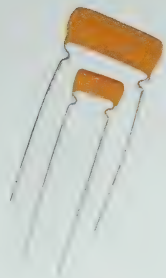
See our website [www.tubesandmore.com](http://www.tubesandmore.com)  
in the **Tech Tips** section for more information  
on capacitors.



### SBE Type PS "Orange Drop" Capacitors

Polyester film, 600V, ± 10% tolerance. Radial Leads.

	Capacity(μF)@Volts	Diameter x Length	1-9	10+
C-SD0012-600	.0012@600	0.33" x 0.70"	\$0.62	\$0.56
C-SD0015-600	.0015@600	0.33" x 0.70"	.62	.56
C-SD002-600	.002@600	0.33" x 0.70"	.62	.56
C-SD0025-600	.0025@600	0.35" x 0.70"	.62	.56
C-SD003-600	.003@600	0.35" x 0.70"	.62	.56
C-SD004-600	.004@600	0.38" x 0.70"	.64	.58
C-SD005-600	.005@600	0.38" x 0.70"	.65	.59
C-SD0068-600	.0068@600	0.40" x 0.70"	.65	.59
C-SD0082-600	.0082@600	0.40" x 0.90"	.70	.63
C-SD01-600	.01@600	0.40" x 0.90"	.70	.63
C-SD015-600	.015@600	0.40" x 0.90"	.78	.70
C-SD02-600	.02@600	0.45" x 0.90"	.87	.79
C-SD03-600	.03@600	0.45" x 1.20"	1.21	1.09
C-SD04-600	.04@600	0.55" x 1.20"	1.25	1.13
C-SD05-600	.05@600	0.55" x 1.20"	1.33	1.20
C-SD06-600	.06@600	0.60" x 1.20"	1.33	1.20
C-SD082-600	.082@600	0.65" x 1.20"	1.45	1.31
C-SD1-600	.1@600	0.65" x 1.20"	1.42	1.28
C-SD2-600	.2@600	0.80" x 1.60"	2.88	2.59
C-SD25-600	.25@600	0.80" x 1.60"	2.99	2.69



### Orange Drop Capacitor Kit

C-RS1 \$52.95

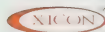
72 pieces total, this kit contains 6 of each of the following values in Type PS and Type 715P: .0033, .0056, .01, .022, .047, .1μF. You save over purchasing each of these individually, plus you get a handy organizer complete with labels.



### Kicon

Great small polypropylene coupling capacitors. Radial Leads.

	Capacity(μF)@Volts	Diameter x Length	1-9	10+
C-XP0001-630	.001@630	0.44" x .26"	\$0.48	\$0.43
C-XP00022-630	.0022@630	0.45" x .28"	.48	.43
C-XP00047-630	.0047@630	0.51" x .38"	.48	.43
C-XP001-630	.01@630	0.48" x .32"	.48	.43
C-XP0022-630	.022@630	0.48" x .43"	.52	.47
C-XP0047-630	.047@630	0.66" x .45"	.72	.65
C-XP01-630	.1@630	0.87" x .54"	.80	.72
C-XP022-630	.22@630	1.15" x .60"	1.10	.99
C-XP047-630	.47@630	1.15" x .86"	1.98	1.78



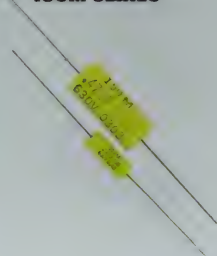
# CAPACITORS

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## 150M SERIES



## 150M Series Metalized Polyester Tubular

Tolerance  $\pm 10\%$ , non-inductive, self healing windings, axial leads.

	Capacity( $\mu$ F)@Volts	Diameter x Length	1-9	10+
C-MD001-630	.001@630	0.20" x 0.43"	\$0.57	\$0.50
C-MD0022-630	.0022@630	0.20" x 0.43"	.62	.55
C-MD0047-630	.0047@630	0.20" x 0.43"	.65	.58
C-MD01-630	.01@630	0.24" x 0.65"	.68	.60
C-MD022-630	.022@630	0.28" x 0.65"	.76	.67
C-MD047-630	.047@630	0.32" x 0.81"	.84	.74
C-MD1-630	.1@630	0.34" x 1.10"	1.05	.94
C-MD22-630	.22@630	0.45" x 1.10"	1.19	1.05
C-MD47-630	.47@630	0.59" x 1.30"	1.95	1.75

## Metalized Polyester Tubular

Tolerance  $\pm 10\%$ , non-inductive, self healing windings, axial leads

400 Volt	Capacity( $\mu$ F)@Volts	Diameter x Length	1-9	10+
C-TD01-400	.01@400	0.22" x 0.55"	\$0.38	\$0.34
C-TD015-400	.015@400	0.22" x 0.55"	.38	.34
C-TD022-400	.022@400	0.22" x 0.55"	.38	.34
C-TD033-400	.033@400	0.24" x 0.55"	.42	.38
C-TD047-400	.047@400	0.28" x 0.55"	.42	.38
C-TD068-400	.068@400	0.26" x 0.75"	.42	.38
C-TD1-400	.1@400	0.30" x 0.75"	.48	.43
C-TD22-400	.22@400	0.39" x 0.75"	.60	.54
C-TD47-400	.47@400	0.45" x 0.98"	.66	.60
C-T1-400	1.0@400	0.59" x 1.26"	1.05	.95
C-T2D2-400	2.2@400	0.79" x 1.26"	2.03	1.83

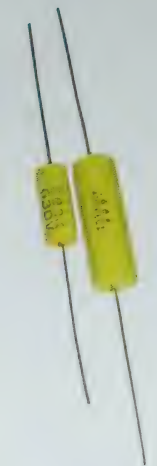
## 630 Volt

C-TD001-630	.001@630	0.18" x 0.39"	.61	.56
C-TD0022-630	.0022@630	0.18" x 0.39"	.57	.51
C-TD0033-630	.0033@630	0.18" x 0.39"	.57	.51
C-TD0047-630	.0047@630	0.18" x 0.39"	.57	.51
C-TD0068-630	.0068@630	0.18" x 0.39"	.57	.51
C-TD01-630	.01@630	0.24" x 0.55"	.42	.38
C-TD015-630	.015@630	0.26" x 0.55"	.42	.38
C-TD022-630	.022@630	0.26" x 0.55"	.44	.40
C-TD033-630	.033@630	0.26" x 0.75"	.57	.51
C-TD047-630	.047@630	0.30" x 0.75"	.52	.47
C-TD068-630	.068@630	0.33" x 0.75"	.58	.52
C-TD1-630	.1@630	0.39" x 0.75"	.66	.59
C-TD15-630	.15@630	0.43" x 0.75"	.71	.64
C-TD22-630	.22@630	0.43" x 0.98"	.75	.68
C-TD33-630	.33@630	0.47" x 0.98"	.87	.78
C-TD47-630	.47@630	0.51" x 1.26"	.98	.88
C-TD68-630	.68@630	0.59" x 1.26"	1.13	1.02
C-T1-630	1.0@630	0.67" x 1.26"	1.45	1.31
C-T1D5-630	1.5@630	0.75" x 1.26"	1.98	1.78
C-T2D2-630	2.2@630	0.79" x 1.85"	2.55	2.30

## Illinois Metalized Polypropylene Tubular

Tolerance  $\pm 10\%$ ,  $+105^\circ$  C, non-inductive, self healing windings, axial leads

	Capacity( $\mu$ F)@Volts	Diameter x Length	1-9	10+
C-UD001-630	.001@630	0.25" x 0.58"	\$0.72	\$0.65
C-UD0022-630	.0022@630	0.25" x 0.58"	.76	.65
C-UD0015-630	.0015@630	0.25" x 0.58"	.50	.46
C-UD0033-630	.0033@630	0.25" x 0.58"	.76	.66
C-UD0047-630	.0047@630	0.25" x 0.58"	.76	.66
C-UD01-630	.01@630	0.26" x 0.58"	.52	.45
C-UD022-630	.022@630	0.34" x 0.58"	.62	.53
C-UD033-630	.033@630	0.34" x 0.81"	.89	.76
C-UD047-630	.047@630	0.36" x 0.81"	.87	.74
C-UD1-630	.1@630	0.42" x 1.15"	.95	.81
C-UD22-630	.22@630	0.50" x 1.34"	1.28	1.09
C-UD47-630	.47@630	0.71" x 1.34"	1.91	1.63



# TUBULAR

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**Ceramic Disc** Capacitance is listed in pico farads.

(To convert pico farads (pF) to micro farads (μF), multiply by .000001)

	Capacity (pF) @ Volts	Tolerance	1-9	10+
C-D22000-100	22,000@100	±10%	\$0.10	\$0.08
C-D50000-100	50,000@100	±10%	.18	.16
C-D100000-100	100,000@100	±10%	.28	.26
C-D390-2000	390@2,000	±10%	.15	.13
C-D470-2000	470@2,000	±10%	.18	.16
C-D1000-2000	1,000@2,000	±10%	.24	.22
C-D2200-2000	2,200@2,000	±10%	.39	.35
C-D100-3000	100@3,000	±10%	.29	.25
C-D330-3000	330@3,000	±10%	.31	.28
C-D1000-3000	1,000@3,000	±10%	.32	.29
C-D10000-3000	10,000@3,000	±20%	.95	.85
C-D220-6000	220@6,000	±10%	.39	.32
C-D470-6000	470@6,000	±10%	.49	.42
C-D560-6000	560@6,000	±10%	.51	.45
C-D2200-6000	2,200@6,000	±20%	.64	.59
C-D500-10000	500@10,000	±20%	.95	.81
C-D1000-10000	1,000@10,000	±20%	.98	.83
C-D2500-10000	2,500@10,000	±20%	1.35	1.25

**Mixed Bag of PET Capacitors**

C-BAGO-100PET

\$1.95

Metalized polyester (PET), round axial lead, 100VDC rating.

Values ranging from 1-10 μF. 20 pieces per bag.

**APC Variable Trimmer Capacitors**

Subject to stock on hand

0-150 pF	C-VT150	\$3.95
0-250 pF	C-VT250	4.95

**Variable Capacitors**

Subject to stock on hand

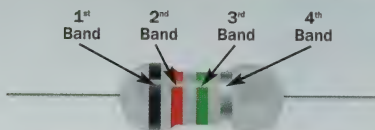
C-V100P	100pF, 1/4" shaft, 7/8" long	\$17.95
C-V198	4 gang, tuning. 15@200 pF, 5@30 pF, 13@85 pF, 5@25 pF. No trimmer	3.95
C-V365	Single section 365 pF, 1 3/16" long frame, 1/4" diameter shaft 9/16" long, capacity increases with clockwise rotation	11.95
C-V300-140	Two section 17 plate 140-30 pF oscillator section with trimmer. 23 plate 300-30 pF RF section. Capacity increases with counterclockwise rotation. 2 3/16" x 1.8" x 1 5/8", 1/4" rounded shaft	14.95
C-V365-X3	Three section, 365 pF, 3 1/4" long frame, 1/4" x 1" shaft. Capacity increases with counterclockwise rotation	24.95
C-V500-X3	Three section 500 pF, 3 3/16" long frame, 1/4" diameter shaft, 1 1/16" long, capacity increases with counterclockwise rotation While Supplies Last!	24.95
C-VW4451	2 gang, air. 13@180 pF, 11@75 pF	5.95
C-VW4299	4 gang, air. 5@25 pF, 11@140 pF, 9@72 pF, 5@25 pF. No trimmer	2.95
C-VW4450	6 gang, air. 9@120pF no trimmer, 11@150pF no trimmer, 5@20pF no trimmer, 7@30pF no trimmer, 13@90pF, 5 plate @ 20pF no trimmer	3.95

**VARIABLE**

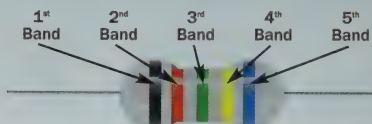
# RESISTORS

## How to "Read" a Resistor

Most resistors are color coded with multiple bands to identify the resistance value and the tolerance. While actually measuring the resistance of a resistor before using it is a good idea, it's also a good idea to know what the resistance is supposed to be. Resistors (especially carbon composition) can drift in their actual resistance. Keep a stock of fresh resistors on hand. Use the following Standard EIA color code tables to identify resistors. See the **tech** section on our website [www.tubesandmore.com](http://www.tubesandmore.com) for more information, or see the gift page 110 for a color code chart you can purchase.



4 band:  $\pm 2\%$ ,  $\pm 5\%$  and  $\pm 10\%$  tolerance



5 band:  $\pm 1\%$ ,  $\pm 25\%$ ,  $\pm 5\%$  and  $\pm 1\%$  tolerance

Color	1 <sup>st</sup> band (1 <sup>st</sup> figure)	2 <sup>nd</sup> band (2 <sup>nd</sup> figure)	3 <sup>rd</sup> band (multiplier)	4 <sup>th</sup> band (tolerance)
Black	0	0	$10^0$	
Brown	1	1	$10^1$	
Red	2	2	$10^2$	$\pm 2\%$
Orange	3	3	$10^3$	
	4	4	$10^4$	
Green	5	5	$10^5$	
Blue	6	6	$10^6$	
Violet	7	7	$10^7$	
Gray	8	8	$10^8$	
White	9	9	$10^9$	
Gold			$10^{-1}$	$\pm 5\%$
Silver			$10^{-2}$	$\pm 10\%$

Color	1 <sup>st</sup> band (1 <sup>st</sup> figure)	2 <sup>nd</sup> band (2 <sup>nd</sup> figure)	3 <sup>rd</sup> band (3 <sup>rd</sup> figure)	4 <sup>th</sup> band (multiplier)	5 <sup>th</sup> band (tolerance)
Black	0	0	0	$10^0$	
Brown	1	1	1	$10^1$	$\pm 1\%$
Red	2	2	2	$10^2$	
Orange	3	3	3	$10^3$	
	4	4	4	$10^4$	
Green	5	5	5	$10^5$	$\pm 0.5\%$
Blue	6	6	6	$10^6$	$\pm 0.25\%$
Violet	7	7	7	$10^7$	$\pm 0.1\%$
Gray	8	8	8	$10^8$	
White	9	9	9	$10^9$	
Gold				$10^{-1}$	
Silver				$10^{-2}$	

## How to Order Resistors

- 1) Determine the type of resistor you want. For example, carbon film, 1 watt. The part number begins with "R-B" for this type.
- 2) Determine the ohm value you want. For example, 1K (1,000 ohms).
- 3) Order "R-B1K" in the package size you want. Example: R-B1K, 20 pcs.

## Carbon Film Resistors - 1/2 and 1 watt

Carbon film resistors are made by vacuum depositing a thin carbon film on a ceramic form. Available in 1/2 and 1 watt ratings. A good choice for applications which require a steady, low power drop.  $\pm 5\%$  tolerance,  $-55^\circ\text{C} \sim 155^\circ\text{C}$  operating range. High stability, low noise, moisture stable. EIA color coded. High quality performance at an economical price.

1/2 Watt - 0.4" long x .14" dia., 350 V working, 700 V overload

R-A	Pkg/5	\$1.00
(OHM)	Pkg/20	2.00
	Pkg/100	4.00
All 91 values, 5 pcs of each value. Save 50%!!	R-AKIT	\$45.50

1 Watt - 0.5" long x .14" dia., 500 V working, 1,000 V overload

R-B	Pkg/5	\$1.50
(OHM)	Pkg/20	3.00
	Pkg/100	8.00
All 91 values, 5 pcs of each value. Save 50%!!	R-BKIT	\$68.25

1.0	30	390	2.7K	27K	330K
1.5	33	470	3.0K	33K	470K
2.0	39	510	3.3K	39K	680K
2.4	47	620	3.9K	47K	820K
2.7	51	680	4.3K	51K	1.0M
3.3	68	750	4.7K	56K	1.5M
4.7	82	820	5.1K	68K	2.0M
5.1	100	1.0K	5.6K	75K	3.0M
6.8	110	1.1K	6.2K	82K	4.7M
8.2	120	1.2K	6.8K	100K	6.8M
10	150	1.5K	7.5K	110K	8.2M
12	180	1.6K	8.2K	120K	
15	220	1.8K	10K	150K	
20	240	2.0K	15K	200K	
22	270	2.2K	20K	220K	
27	330	2.4K	22K	270K	



# RESISTORS



# RESISTORS

## Carbon Composition Resistors - 1/2 watt

Made by mixing carbon particles with a binder molded into a cylindrical shape, then baked. Resistance decreases as temperature increases. Resistance more prone to drifting than with other types. Available in 1/2 watt ratings. Standard "classic" resistor. 0.38" long x 0.41" diameter. ±5% tolerance, -55°C ~ 125°C operating range, 350V working, 700V overload. Low inductance, low capacitance. Better pulse endurance characteristics than film type resistors. EIA color coded.

Below 1 meg ohm  1 meg ohm and Above

R-I			R-J		
(OHM)	Pkg/5	\$2.00	(OHM)	pkg/5	\$2.25
	Pkg/20	5.00		pkg/20	6.50
	Pkg/100	13.00		pkg/100	20.00

All 94 values, 5 pcs of each value. Save 50%!! R-IJKIT \$95.35

## Metal Film Resistors - 1/2 watt

Consists of a resistive element of an extremely thin layer of metal alloy vacuum deposited on a substrate. Precise and quiet. 1/2 watt ratings. 0.4" long x 0.14" diameter. ±1% tolerance, -55°C ~ 155°C operating range, 350V working, 700V overload. Epoxy coated, nickel chromium ceramic substrate, alloy coated leads, welded end caps. EIA color coded.

R-M			R-MKIT		
(OHM)	pkg/5	\$1.50			
	pkg/20	3.00			
	pkg/100	8.00			

All 70 values, 5 pcs of each value. Save 50%!! R-MKIT \$52.50

## Metal Oxide Power Resistors - 1 and 2 watt

Metal Oxide resistors are for applications where stability under high temperature conditions is required. Available in 1 and 2 watt ratings. ±5% tolerance, -55°C ~ 240°C operating range (derated over 70°C), 350V working, 600V overload. Excellent flame retardant coating. Stable performance in diverse conditions. High purity ceramic core. EIA color coded.

1 Watt - 0.47" long x 0.20" diameter	R-E				
	(OHM)	pkg/5	\$1.75		
		pkg/20	3.50		
		pkg/100	11.00		

All 86 values, 5 pcs of each value. Save 50%!! R-EKIT \$75.25

2 Watt - 0.63" long x 0.22" diameter	R-F				
	(OHM)	pkg/5	\$2.00		
		pkg/20	5.00		
		pkg/100	13.00		

All 86 values, 5 pcs of each value. Save 50%!! R-FKIT \$86.00

## Power Resistors

Wire wound resistors are made by wrapping a length of high resistance wire onto an insulating form. Metal oxide resistors are made by depositing tin oxide on the substrate, providing good stability. Ceramic flame retardant package. Exceptionally small, sturdy and reliable. Available in 5 watt and 10 watt ratings. ±5% tolerance, -55°C ~ 155°C operating range (derated over 70°C), 350V working, 700V overload. Excellent moisture resistance. Stable performance in diverse conditions. Sealed with special cement. High temperature stability

5 Watt - 0.86" long x 0.39" square	R-Q				
	(OHM)	each	\$0.65		
		pkg/10	4.00		

10 Watt - 1.93" long x 0.39" square	R-R				
	(OHM)	each	\$0.75		
		pkg/10	5.00		

2.2	47	390	2.7K	22K	150K	1.2M
2.7	51	470	3.3K	27K	200K	1.5M
3.0	68	510	3.6K	33K	220K	2.2M
3.9	82	620	4.7K	39K	240K	2.4M
4.7	100	680	5.1K	47K	270K	2.7M
5.1	110	750	5.6K	51K	330K	3.3M
6.8	120	820	6.2K	56K	390K	4.7M
8.2	150	1.0K	6.8K	62K	470K	5.6M
10	180	1.1K	7.5K	68K	510K	6.8M
12	220	1.2K	8.2K	75K	620K	8.2M
15	240	1.5K	10K	82K	680K	
20	270	1.8K	12K	100K	750K	
27	330	2.2K	15K	110K	820K	
36	360	2.4K	20K	120K	1.0M	

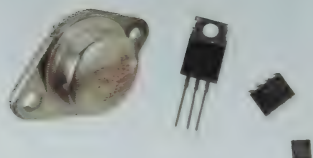
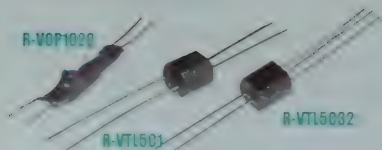
10	120	680	5.1K	47K	240K
12	150	820	6.2K	51K	270K
15	180	1.0K	6.8K	62K	330K
20	220	1.1K	7.5K	68K	470K
27	240	1.2K	8.2K	75K	511K
36	270	1.5K	10K	82K	680K
47	330	2.2K	15K	100K	820K
51	360	2.4K	20K	110K	1.0M
68	390	2.7K	22K	120K	1.5M
82	470	3.3K	27K	150K	2.2M
100	510	3.9K	33K	200K	
110	620	4.7K	39K	220K	

0.47	27	270	1.8K	10K	120K
1.0	30	300	2.0K	12K	150K
2.0	39	330	2.2K	15K	200K
2.4	47	390	2.4K	20K	220K
2.7	51	470	2.7K	22K	270K
3.3	68	510	3.0K	24K	330K
4.7	82	560	3.3K	27K	470K
5.1	100	680	3.9K	30K	510K
6.8	110	750	4.3K	33K	680K
8.2	120	820	4.7K	47K	820K
10	150	1.0K	5.1K	51K	1.0M
12	180	1.1K	6.2K	68K	
15	200	1.2K	6.8K	75K	
20	220	1.5K	7.5K	82K	
22	240	1.6K	8.2K	100K	

	Wire Wound	Metal Oxide
5W	0.5-47	50-25K
10W	0.5-750	1.0K-25K

0.5	7.5	50	150	680	3.0K
1	8.2	68	200	750	4.7K
2	10	75	250	820	5.0K
3	15	82	300	1.0K	10K
4	20	100	360	1.5K	20K
5	30	110	400	2.0K	25K
6.8	47	120	500	2.7K	

# RESISTORS



See page 13 for  
Solid State Rectifier replacement  
for 5AR4, 5U4 and 5Y3 tubes.



## OPTOCOUPERS

		Price
Vibrato LDR for Fender® Amps	R-VOP1020	\$9.95
VacTec. For channel switching	R-VTL5C1	7.95
VacTec dual element	R-VTL5C32	8.95

## TRANSISTORS

		Price
MPS W42	Original Fender®	\$4.95
A18937	Original Fender®	2.95
TIP31C	T0-220 Case	.95
TIP32C	T0-220 Case	.95
TIP41C	T0-220 Case	.95
TIP42C	T0-220 Case	.95
2N3055	T0-3 Case	1.95
MJ15015	T0-3 Case	2.95
MJ15016	T0-3 Case	2.95
MJ15022	T0-3 Case	5.95
MJ15023	T0-3 Case	5.95
MJ15025	T0-3 Case	5.50
P-QMPSW42		
P-QA18937		
P-QTIP31C		
P-QTIP32C		
P-QTIP41C		
P-QTIP42C		
P-Q2N3055		
P-QMJ15015		
P-QMJ15016		
P-QMJ15022		
P-QMJ15023		
P-QMJ15025		

## INTEGRATED CIRCUITS (DIP)

		Price
PC1188H	Original Fender® Power Amp IC	\$9.95
TDA7293	Original Korg®	12.95
M5201	Original Korg® op Amp	5.95
TL072	Dual op Amp	1.25
TL074	Quad op Amp	1.25
NE5532	Dual op Amp	1.25
NE5534	Dual op Amp	1.25
4558	Dual op Amp	.95
P-QPC1188H		
P-QTDA7293		
P-QM5201		
P-QTL072		
P-QTL074		
P-QNE5532		
P-QNE5534		
P-Q4558		

## DIODES

Type	Amps	Volts	Part	Price
1N4005	1	600	P-Q1N4005	\$0.25
1N4006	1	800	P-Q1N4006	.25
1N4007	1	1000	P-Q1N4007	.25
1N4148A	1	600	P-Q971	.25
1N5404	3	400	P-Q1N5404	.39
6A05	6	50	P-Q6A05	.49

## GERMANIUM DIODE

1N34A point contact germanium diode. ideal for crystal radio detectors. Sold individually.	P-Q972	\$1.50
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## ZENER DIODES

Type	Watts	Volts	Part	Price
1N4741A	1	11	P-Q1N4741A	\$0.25
1N4748A	1	22	P-Q1N4748A	.25

## HEXFRED DIODES

Type	Amps	Volts	Part	Price
HFA08TB60	8	600	P-QHFA08	\$2.95
HFA16TA60C	16	600	P-QHFA16T	2.95
HFA16PB120	16	1200	P-QHFA16P	6.50

## BRIDGE RECTIFIERS

Type	Amps	Volts	Part	Price
BR-34	3	400	P-QBR-34	\$0.95
BR-81	8	100	P-QBR-81	1.95
BR-104	10	400	P-QBR-104	1.45



# SOLID STATE



## FENDER® ORIGINAL POTS

For most Stratocaster & Telecaster Guitars

250K ohm, Original TBX tone control	R-VTBX	10.95
250K ohm, Split Shaft	R-V250K-SP	4.50
250K ohm, Solid Shaft	R-V250K-SS	5.25
250K ohm, Solid Shaft, no load	R-V250K-SS-NL	5.25
250K ohm, Push Pull, Split Shaft	R-V250K-PP-SP	12.95
250K ohm, Split Shaft, no load	R-V250K-SP-NL	5.25
500K ohm, Split Shaft	R-V500K-SP	5.25
500K ohm, Solid Shaft	R-V500K-SS	5.25
1M ohm, Solid Shaft, nut and washer not included	R-V1M-SS	6.25
Hex nut for Fender® pots. Package of 12	S-HRVNT	2.50
Lock Washer for Fender® pots. Package of 12	S-HRVLW	2.50

## FENDER® ORIGINAL SNAP-IN POTS

For Blues Jr. PC Mount, snap-in

25K Linear, middle	R-VBJ-25KL	\$2.50
50K Linear, reverb	R-VBJ-50KL	2.50
250K Audio, treble	R-VBJ-250KA	2.50
250K Linear, bass	R-VBJ-250KL	2.50
1M Audio, volume	R-VBJ-1MA	2.50

For Hot Rod Deluxe® PC Mount, snap-in

25K Audio, for presence	R-VHD-25KA	\$2.95
25K Linear, master & reverb	R-VHD-25KL	2.95
250K Audio, vol drive & bass	R-VHD-250KA	2.95

## Bias Pot

10K Linear, Original Fender® Bias Pot	R-V10KL-BP-FND	\$2.75
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## MARSHALL™ / KORG™ ORIGINAL POTS

4.7K Linear	24mm	R-V4D7KL-M	\$4.95
22K Linear	24mm	R-V22KL-M	4.95
100K Linear	24mm	R-V100KL-M	4.95
220K Linear	24mm	R-V220KL-M	4.95
1M Audio	24mm	R-V1MA-M	4.95
1M Audio, push-pull, solder lugs	24mm	R-V1M-PP-M	10.95
4.7K Linear	16mm	R-V4D7KL-M-16	4.95
10K Linear	16mm	R-V10KL-M-16	4.95
10K Linear Dual	16mm	R-V10KLX2-M-16	4.95
22K Linear	16mm	R-V22KL-M-16	4.95
100K Audio	16mm	R-V100KA-M-16	4.95
100K Linear	16mm	R-V100KL-M-16	4.95
100K Dual Reverse Audio	16mm	R-V100KRA-X2-16	6.95
220K Linear	16mm	R-V220KL-M-16	4.95
1M Audio	16mm	R-V1MA-M-16	4.95
22K Linear, Bias/trim pot for JMP PC mount		R-V22KL-BP-M	4.95

## DUNLOP POTENTIOMETERS

Hot Potz 470k Pot	P-ECB-24A	\$19.95
Hot Potz II 100K Crybaby Pot	P-ECB-24B	19.95
Mr. Crybaby Super Pot	P-ECB-24EW	39.95

## REPLACEMENT POTS FOR WAH

100K Wah pot from Fulltone	R-VWAH	\$15.95
Life Pot 100K Wah pot. High grade replacement and upgrade wah pedal pot supplied with all necessary hardware and gear for immediate installation.	R-VWAH-LP	12.95

## GIBSON™ ORIGINAL POTS For Gibson® Guitars

300K ohm, Linear taper, Long shaft	R-V300-GIB	\$7.95
300K ohm, Linear taper, Short shaft	R-V310-GIB	7.95
500K ohm, Audio taper, Long shaft	R-V500-GIB	7.95
500K ohm, Audio taper, Short shaft	R-V510-GIB	7.95
500K ohm, Audio taper, Push-pull, Short shaft	R-V520-GIB	14.95

Fender



Marshall



R-V220KL-M-16



Dunlop



Gibson

POTENTIOMETERS

**ALPHA POTS**

24mm carbon composition. 300° rotation. 1/2 watt, 500VDC rating for linear taper, 1/4 watt, 250VDC rating for audio taper. 1/4" diameter shaft, 8mm bushing. Solder lugs.

**Single Audio/Log**

1K	R-VA1KA	\$1.50
5K	R-VA5KA	1.50
10K	R-VA10KA	1.50
50K	R-VA50KA	1.50
500K	R-VA500KA	1.50
1M	R-VA1MA	1.50

**Dual Audio/Log**

10K	R-VA2X10KA	\$2.50
50K	R-VA2X50KA	2.50
100K	R-VA2X100KA	2.50
250K	R-VA2X250KA	2.50
500K	R-VA2X500KA	2.50
1M	R-VA2X1MA	2.50

**ALPHA POTS**

Same as above but with 3/8" bushings. Exact fit for American made amplifiers.

**Single Audio/Log**

10K	R-V38-10KA	\$1.75
25K	R-V38-25KA	1.75
50K Reverse Audio	R-V38-50K-RA	1.75
100K	R-V38-100KA	1.75
250K	R-V38-250KA	1.75
500K	R-V38-500KA	1.75
1M	R-V38-1MA	1.75

**MINIATURE ALPHA POTS**

16mm, 1/4" Split, knurled shaft. (Push-on).

**Audio taper**

500K	R-VAM500KA	\$1.50
1M	R-VAM1MA	1.50

**CTS POTS**

24 mm, 1/2 watt, 3/8" mounting, 1/4" splined nylon shaft for set screw or push on. For most US made amps.

**Audio**

10K	R-VC10KA	\$2.95
50K Reverse	R-VC50K-RA	2.95
250K	R-VC250KA	2.95
500K	R-VC500KA	2.95
1 meg	R-VC1MA	2.95
3 meg Reverse	R-VC3M-RA	2.95

**PUSH-PUSH**

Pusher Pots are the ultimate "push/push" pots and undisputedly the most effective switches available today. One downward touch does it all! No clutching and fumbling ever again! DPDT, split shafts. 3/8" nut diameter, 3/8" diameter washer.

250K audio	R-VPSH-250KA-SP	\$11.95
500K audio	R-VPSH-500KA-SP	11.95

**PUSH-PULL POTS**

7mm bushing, 1/4" solid metal shaft. DPDT

Used in many Fender® applications

1M audio	R-VPP-1MA	\$3.95
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**Single Linear**

1K	R-VA1KL	\$1.50
5K	R-VA5KL	1.50
10K	R-VA10KL	1.50
50K	R-VA50KL	1.50
100K	R-VA100KL	1.50
250K	R-VA250KL	1.50
1M	R-VA1ML	1.50
100K 2" shaft	R-VA100KLX	1.75

**Dual Linear**

50K	R-VA2X50KL	\$2.50
100K	R-VA2X100KL	2.50
250K	R-VA2X250KL	2.50
500K	R-VA2X500KL	2.50
1M	R-VA2X1ML	2.50

**Single Linear**

5K	R-V38-5KL	\$1.75
25K	R-V38-25KL	1.75
100K	R-V38-100KL	1.75
250K	R-V38-250KL	1.75
500K	R-V38-500KL	1.75
2M	R-V38-2ML	1.75

**Linear taper**

300K	R-VAM300KL	\$1.50
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**Linear taper**

100K	R-VC100KL	\$2.95
250K	R-VC250KL	2.95

**SWITCHED POTENTIOMETERS**

Great for antique radios! Single pole, single throw (SPST) switch, 2 amp 125VAC. 24mm body, 1-3/8" long by 1/4" diameter solid shaft.

500K audio	R-VS-500KA	\$2.50
1M audio	R-VS-1MA	2.50



# POTENTIOMETERS



## NoOhm NOS POTS

Composition element control designed for applications where bushingless controls are required. Phenolic shaft insures insulation if control is used on a hot chassis. Great for antique radios. 24 mm body, 2" solid shaft length, 1/4" diameter.

### Audio

100K dual	R-V100KD-N	\$2.95
1M dual, 300K tap	R-V1MD-N1	3.95



### Linear

200K Twist tab mount	R-V200K-N1	\$0.95
250K Twist tab mount	R-V250K-N1	.95
2M Twist tab mount	R-V2M-N1	.95
500K Twist tab mount	R-V500K-N2	.95
1M dual	R-V1MD-N2	2.95



## SWITCHED NoOhm POTS

### Audio

10K	R-V10K-N	\$1.95
250K	R-V250K-N2	2.95
1M	R-V1M-N3	2.95

### Linear

500K	R-V500K-N1	\$3.95
1M (2-1/2" shaft)	R-V1M-N2	1.95

## NOS POTENTIOMETERS

	Value (ohms)	Taper	Shaft	Other	Price
R-V-LPAD08	8		1/4" knurled screwdriver	100W High Quality, Made in Japan	\$4.95
R-V-LPAD16	16		1/4" knurled screwdriver	100W High Quality, Made in Japan	4.95
R-V25K3	25K	audio	5/16" flatted shaft	miniature	.60
R-V250K	250K	audio	3" long by 1/4" shaft	Mallory, nut included	3.95
R-V2M1	2M	audio	3/8" long by 1/4" shaft	hardware not included	2.95



## KNOBS

### Reproduction Philco Molded Plastic Knob

Rosette Knobs used on 1931-32 Philco Cathedral. With set screw to fit 1/4" shaft

1-1/4" diameter tuning knob, Brown	P-K175	\$6.95
7/8" diameter, Brown	P-K176	6.95
11/16" diameter skirt, 7/16" diameter face	P-K177	6.95

Hex-shaped knobs. Used on 1933-34 Philcos. With set screw to fit 1/4" shaft

1" diameter tuning knob, Black	P-K178	6.95
13/16" diameter, Black	P-K179	6.95



### Zenith Knobs

Transoceanic Brights. For H 500 & 600 series, 5/8" diameter. pkg of 2 Ivory pushbutton - 7/8" x 7/16" dia.

P-K985	\$6.95
P-K923	.75



### Zenith Bandswitches

Used in Zenith radios in the late 30's and early 40's. 1938 model used lever with set screw in 3:00 position. 1939 model and 1940 models used lever with set screw in 12:00 position. While Supplies Last!

Set screw in 3:00 position	P-K220	\$14.95
Set screw in 12:00 position	P-K221	14.95
Internal metal bandswitch link. 3:00 set screw. Internal part for large Zenith radios made in 1940-1942 that the bandswitch wheel attaches to. Originally a potmetal part.	P-K223	12.95



### Walnut Wood Knobs

Exact reproduction of an early wood knob commonly found on many radios from 1928-1934. Knob is 1" diameter and 3/4" deep, with metal insert and set screw to fit on 1/4" diameter shaft

P-K903	\$6.95
P-K971	6.95



### Knob Springs

Assortments of knob springs for half moon shaft.

All are "D" shaped and sold in bags of six.	
3/8" high x 9/32" overall diameter	P-KS215 \$0.96
3/8" high x 13/32" overall diameter	P-KS221 1.20



### Radio Knob Felt

Premium quality wool felt washers. Medium brown in color, these washers will resist wear and hold their shape over time. All have center holes punched. Most have 1/4" interior diameter. Sold in packages of 5 per size.

3/4" overall diameter	P-H200	1.80
7/8" overall diameter	P-H201	1.95
1" overall diameter	P-H202	2.10
1-1/4" overall diameter	P-H203	2.25



# KNOBS

# CHICKEN HEAD

High quality, with set screw & brass insert. 1-1/4" length. Sold Individually

Black	P-K300	\$1.25
Blue	P-K300BU	1.25
Cream	P-K300C	1.25
Green	P-K300G	1.25
Purple	P-K300P	1.25
Red	P-K300R	1.25
White	P-K300W	1.25
Yellow	P-K300Y	1.25

# FENDER® ORIGINAL AMP KNOBS in package of 6

Skirted, 1-10	P-K314	\$14.95
White Vintage	P-K315	13.95
Brown Vintage	P-K316	13.95
Chicken head, black	P-K318	9.95
Skirted Roc Pro, black	P-K319	9.95
Red Pointer	P-K320	9.95
Black Pointer	P-K321	9.95

# MARSHALL™ ORIGINAL KNOBS

Gold cap, set screw, 5/8" height. Set of 8	P-KM100	\$13.95
Brown with gold cap.		
Set screw, 5/8" height. Sold Individually.	P-K400	2.95
Gold cap, push-on, 5/8" height. Set of 8	P-KM200	13.95
Brown with gold cap.		
Push on, 5/8" height. Sold Individually.	P-K401	2.95
IBS Bass. Set of 5.	P-KM300	13.95

# REPLACEMENT FOR MARSHALL™ AMPS & SCOTT RECEIVERS

1/4" shaft, Sold Individually

Black with gold cap. Set screw, 3/4" height	P-K340	\$2.50
Black with silver cap. Set screw, 3/4" height	P-K342	2.50
Black with silver cap. Push on, 3/4" height	P-K343	2.25

# VOX™ KNOB

Chickenhead knob, black, original Vox™	P-KV11	\$4.95
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# AMPEG AMP KNOBS

Sold Individually

Stove knob for large pots. 1/4" D shaft	P-K322	\$2.95
Stove knob for smaller pots. 3/8" dia. shaft	P-K323	3.95
Classic knob. 1/4" D shaft	P-K324	3.95

# MISCELLANEOUS NOS AND GENERIC REPLACEMENT KNOBS

Black. 9/16" long, 3/8" diameter pushbutton	P-K810	\$0.75
Ivory. Brushed face knob with indicator line, fits 1/4" shaft, 1-1/4" diameter, double set screw	P-K304	2.25
Knurled aluminum. Positive grip, notched tip indicator, fits 1/4" shaft with set screw, 3/4" dia	P-K310	3.50
Knurled aluminum. Positive grip, notched tip indicator, fits 1/4" shaft with set screw, 1-1/4" dia	P-K312	4.95
Knurled aluminum. Black, positive grip, notched tip indicator, fits 1/4" shaft with set screw, 3/4" dia	P-K311	3.50
Knurled aluminum. Black, positive grip, notched tip indicator, fits 1/4" shaft with set screw, 1" dia	P-K313	4.95
Cylindrical with pointer. 1" base. Black	P-K102	2.75



# KNOB



## FENDER® GUITAR KNOBS

Original for Strat, 1 volume, 2 tone, white	P-K330	\$5.95
Original for Strat, 1 volume, 2 tone, black	P-K331	5.95
Original for Tele, Chrome Dome, package of 2	P-K332	15.95
Original Tele switch tip, package of 2	P-K334	4.95
Original Strat switch tip, package of 2	P-K335	3.95



## GIBSON® GUITAR KNOBS

Original Speed type, black, package of 4	P-K500	\$11.95
Original Speed type, gold, package of 4	P-K501	11.95
Original Top Hat type, black, package of 4	P-K502	11.95
Original Top Hat type, gold, package of 4	P-K503	11.95
Original Top Hat type, vintage amber, package of 4	P-K504	11.95
Original Speed type, black with silver metal insert.		
Package of 4: 2 volume, 2 tone	P-K505	11.95
Original Speed type, black w/gold metal insert.		
Package of 4: 2 volume, 2 tone	P-K506	11.95
Original Speed type, gold w/gold metal insert.		
Package of 4: 2 volume, 2 tone	P-K507	11.95
Original switch cap for toggle, black	P-SW03	4.75
Original switch cap for toggle, white	P-SW04	3.75
Original switch cap for toggle, vintage amber	P-SW05	4.75



## GENERIC REPLACEMENT KNOBS

### Speed Knobs with Knurled Shaft

Black	P-K905	\$2.50
Amber	P-K907	2.50
Gold	P-K906	2.50

### Bell Knobs with Knurled Shaft

Black	P-K900	\$2.50
Gold	P-K901	2.50
Amber	P-K902	2.50

### Numbered Knobs, 0-10

Volume	P-KV100	\$2.50
Tone	P-KT200	2.50

### Guitar Volume Knobs

White	P-KV800-W	\$1.25
Black	P-KV800-B	1.25
Cream	P-KV800-C	1.25

### Guitar Tone Knobs

White	P-KT700-W	\$1.25
Black	P-KT700-B	1.25
Cream	P-KT700-C	1.25

## KORG™ KNOB

7/8" dia x 1/2" tall	P-K107	\$4.95
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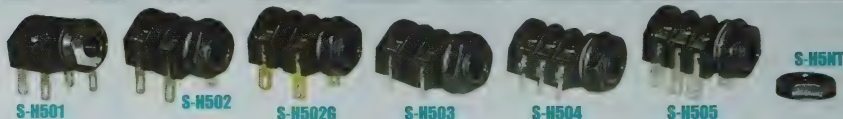


## CLIFF JACKS

Highest Quality, made in England

Mono input jack. 4 solder terminals, shorting. Metal ferrule, vintage style. Used in British amps  
Mono input jack. 4 solder terminals, shorting. Used in modern Marshall™ amps with black plastic nut  
Same as above (S-H502) but with gold terminals  
Mono input jack. 4 PC board terminals, shorting. Used in modern Marshall™ amps, or as replacement part for Marshall™ JCM 900 cabinets. Used in Ampeg, Crate, Marshall™ & more  
Stereo input jack. 6 PC board terminals, shorting. Used in modern Marshall™ amps.  
Used in many PA & Recording consoles, Marshall™ bass heads, & "rack" units  
Same as S-H504 but with 6 solder lugs  
Hex nut for S-H502, S-H503, S-H504 and S-H505

S-H501	\$2.75
S-H502	2.25
S-H502G	2.95
S-H503	2.25
S-H504	2.25
S-H505	2.45
S-H5NT	.45



## INPUT JACKS

Mono input. 4 solder terminals, shorting. Metal ferrule, vintage style. Similar to S-H501  
Mono input. 4 PC mount terminals. Metal ferrule. Shorting  
Stereo input. 6 solder terminals. Metal ferrule. Shorting  
Stereo input. 6 PC mount terminals. Metal ferrule. Shorting

S-H601	\$1.75
S-H601A	1.75
S-H601B	1.75
S-H601C	1.75



## FENDER® 1/4" JACKS

PC mount jack. Mono 4 pin. c.1988-1999  
Same as above, but generic  
PC mount jack. Stereo 9 pin. c. 1988-1999  
Same as above, but generic  
Rean stereo jack 1999 to present  
Rean mono jack 1999 to present  
PCB mono closed circuit  
Hex nuts for Rean jacks. Package of 12

S-H506	\$3.50
S-H506-A	2.50
S-H507	4.50
S-H507-A	3.50
S-H508	2.25
S-H509	2.25
S-H512	4.95
S-H510	2.25



## ORIGINAL MARSHALL™ JACKS

Input with 6 terminals, PC mount  
Input, MG series, PC mount  
Input with 4 terminals, PC mount

S-H530	\$4.50
S-H531	4.95
S-H532	4.95



## SWITCHCRAFT JACKS

1/4" Female. Open circuit. Replacement for Fender®  
Shorting type. 1/4" female  
1/4" female. Stereo Double Open Circuit  
1/4" female Same as W-SC-12A but has longer leads  
RCA panel mount female jack. Good Fender® replacement  
Stereo end pin jack. Threaded, 15/32" dia,  
1/2" mounting hole for 1/4" plug

W-SC-11	\$1.95
W-SC-12A	1.95
W-SC-12B	2.75
W-SC-112A	2.60
W-SC-3501FR	1.95
W-SC-152B	6.95

## 1/4" PANEL MOUNT PHONE JACKS

3 conductor, stereo. Double open circuit.  
Generic, like Switchcraft 12B  
2 conductor, shorting type. Generic, like Switchcraft 12A

S-H33-099	\$1.50
S-H33-097	1.50

## RCA PHONO JACKS

Gold, black band, front mount  
Gold, red band, front mount  
Gold, white band, front mount  
Gold, black band, rear mount  
Gold, red band, rear mount  
Gold, white band, rear mount

S-H267B	\$3.95
S-H267R	3.95
S-H267W	3.95
S-H268B	3.95
S-H268R	3.95
S-H268W	3.95



## PHONO JACK, BOARDS

Double, 1-1/2" x 1" package of 2  
Single, round. 1" diameter. Replacement for Fender® Tweeds

S-H310	\$0.25
W-HHS-1203	1.95



# JACKS

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## 1/2" PLUGS

Made by G&H Industries. High quality, oxygen-free copper core phone plugs. Made in America.

Standard mono. Nickel plated	P-H50	\$2.12
Right angle mono. Nickel plated	P-H60	4.45
Jumbo mono. Nickel plated	P-H80	3.95
Standard mono gold plated plug and nickel housing	P-H51	3.95
The "quiet plug." Nickel plated. Spring loaded ground sleeve	P-H90	3.50
Standard stereo plug. Nickel plated	P-H70	3.25

## 20 AWG INSTRUMENT CABLE BY THE FOOT

Make your own cable! Excellines 20 AWG 26 strand guitar cable.

Shielded. Sold by the foot.	P-HEG-FT	\$0.48/ft
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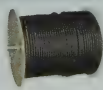
## 16 AWG SPEAKER CABLE BY THE FOOT

Make your own cable! Excellines 16 AWG two conductor.

Non-shielded. Sold by the foot.	P-HSG-FT	\$0.48/ft
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**EXCELLINES**  
PRO AUDIO CABLE

**EXCELLINES**  
PRO AUDIO CABLE



P-H50

P-H60

P-H80

P-H51

P-H70

P-H90



## SWITCHCRAFT PLUGS

RCA Plug. For Fender®	W-SC-3502A	\$2.25
1/4" Right angle plug. For Fender®	W-SC-228	3.95



## F CAP & PLUG FOR FENDER®

1/4" straight plug, open back, mono.

Used in conjunction with Fender® F-cap	P-H55	\$5.95
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F-cap, black plastic. Similar to that used on old Fender® amps

P-H55F	2.95
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## BANANA PLUGS

Internal stud for solder or solderless connection. Body is hex brass, tip is four leaved, phosphor bronze, gold plated spring. Gold screw type.

Red	S-H264R	\$0.95
Black	S-H264B	.95



## DUAL BANANA PLUGS

Mates with Standard dual binding posts with 3/4" centers and can be stacked for multiple connections. Polarity is indicated by rib. Nickel or gold plated. Screw connection.

Red (Nickel plated)	S-H33-010	\$1.75
Black and Red, heavy duty (Gold plated)	S-H269	2.95



## RCA PHONO PLUGS

Male plugs. Ceramic body with gold plating. Sold Individually.

Red	S-H331R	\$1.95
Black	S-H331B	1.95

## INDIVIDUAL BINDING POSTS

Accepts standard banana plug, test and phone tip plugs, spade lugs, alligator clips and bare wire. Gold plated.

Black	S-H266B	\$2.75
Red	S-H266R	2.75

## EARLY STYLE BINDING POST

An exact reproduction of an early Philmore binding post.

Precision machined from brass, nickel plated.

1/4" x 5/8" high, with screw.

S-H159	\$2.95
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## DUAL BINDING POSTS

Red and black posts, accepts either single or dual banana plugs. Mounts in two 1/2" holes on 3 1/4" centers, panel thickness up to 1/4". 15A rating. gold plated contacts.

S-H263	\$3.95
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## TIP JACKS

Deluxe for standard .080" tip plug. Machined contact with turret terminal. Brass body, silver finish. 10A rating.

For panels up to .437" thick.

Red	S-H260	\$1.50
Black	S-H261	1.50

## PHONE TIP

Standard .080" pin with .136" solder cup. Hollow tip, nickel plated. Package of 10

S-H33-156	\$6.50
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## COMMERCIAL PHONE PLUG

1/4", 3 conductor, While Supplies Last!

W-SC-267	\$1.45
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## HH SMITH GRAB BAG

Grab bag of miscellaneous HH Smith parts.

At least 25 pieces per bag.

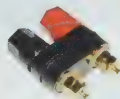
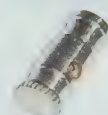
W-HHS-GBAG	\$2.50
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## SWITCHCRAFT GRAB BAG

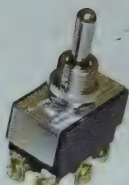
Grab bag of miscellaneous Switchcraft parts.

At least 10 pieces per bag.

W-SC-GBAG	\$2.50
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**PLUGS**



P-H35-146  
P-H35-148

## TOGGLE SWITCHES

Carling SPST toggle power and standby switch. Good Fender® replacement	P-H495	\$4.95
Carling SPDT 2 position toggle. Great Fender® ground switch replacement	P-H494	5.95
Carling SPDT 3 position center off toggle. Great Fender® ground switch replacement	P-H496	4.95
Ball handle SPST. 6A-125V rated. 1/2" hole mount. Screw connections	P-H35-170	6.95
Bat handle DPDT. On-on, 20A-125V rating. 1/2" hole mount. Screw connections	P-H35-146	6.75
DPDT. On-off-on	P-H35-148	6.75
Original Marshall™ Chrome Plexi toggle switch	S-HM300	15.95
Original Marshall™ Chrome nut for toggle switch (S-HM300)	S-HM300N	4.95
Original Vox™ Switch, toggle, power/standby, DPDT	P-H504	14.95



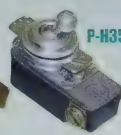
P-H495



P-H494



P-H496



P-H35-170

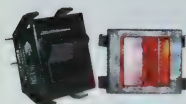


S-HM300

S-HM300N



P-H504

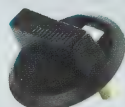


P-H490

P-H491

## ROCKER SWITCHES

Black standby rocker switch for Marshall™ JCM series and others. 15/16" x 1-1/16" x 1" deep	P-H490	\$3.95
Lighted power switch. Used for Marshall™ JCM series and others. 15/16" x 1-1/16" x 1" deep	P-H491	5.95
Original Marshall™ black rocker power switch for the MG amps	P-H489	4.95



P-H502



S-HM100



P-H1700

## SELECTOR SWITCHES

Modern replacement for Marshall™, 4/8/16 ohms	P-H1700	\$16.95
Original Marshall™ Voltage selector, Modern	S-HM100	4.95
Vintage style selector switch, male part, replacement for Marshall™.	P-H502	\$9.95



P-H35-242

## SLIDE SWITCHES

Standard size. Cadmium plated solder connections. 11A-125VAC, 5A-125VDC, DPDT. Good for Fender® bright switch.	P-H35-242	1.25
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## GUITAR SWITCHES

Original Gibson® L-type with cream cap	P-SW01	\$14.95
Original Gibson® Straight type with cream cap	P-SW02	14.95
Original Fender® 3 way pickup selector used on American vintage Strats & Teles	P-SW50	7.75
Original Fender® 5 way pickup selector used on most American made Stratocasters	P-SW51	7.75
Original Fender® 5 way super switch	P-SW52	11.95
Original Fender® 4 way Tele mod	P-SW53	13.95



P-SW01



P-SW02



## ROTARY SWITCHES

Alpha, 0.3A, 125VAC. solid 1/4" shaft.		
1 pole, 12 position, make before break (shorting)	P-H390	\$1.50
1 pole, 12 position, break before make (non-shorting)	P-H391	1.60
2 pole, 6 position, make before break (shorting)	P-H392	1.50
2 pole, 6 position, break before make (non-shorting)	P-H393	1.60



# SWITCHES

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## FOOT SWITCHES

Carling SPST footswitch, used in Fender®, etc. reverb/tremolo/channel switching pedals	P-H493	\$6.95
Carling DPDT footswitch, used in switching and effects units	P-H497	9.95
DPDT footswitch, same switch as P-H497 but made in Taiwan	P-H498	4.95
DPDT footswitch, PC mount, same switch as P-H497 but made in Taiwan and PC mount	P-H498-PC	4.95
3PDT footswitch. Authentic Fulltone manufacture!	P-H499	11.95
3PDT footswitch. For true bypass	P-H501	9.95
DPDT momentary footswitch	P-H503	5.95
Original Dunlop GCB-95 switch. Original Crybaby part for all Crybaby models	P-ECB-69	9.95
Carling SPDT footswitch. Used in footswitch boxes & effects pedals	P-H492	8.95



## DUNLOP EFFECTS PEDAL PARTS

### Fasel Inductor

The Fasel inductor is back! Choose the precision-wound Toroidal for the cleanest sound possible or, for die-hard vintage vibe, install the authentic cup core version. Either way your wah will finally give up the lush harmonic sparkle you've always heard in your head but could never coax from your rig.

Fasel cup core model. Yellow	P-ECB-FI-01	\$17.95
Fasel toroidal model. Red	P-ECB-FI-02	17.95
Standard inductor., 500 ohm, black	P-ECB-156	9.95

### Effects Pedal Parts

Rocker Pedal Bag	P-PB-101	\$7.95
GCB-95 Bottom Plate with Battery Door	P-ECB-152	10.95
Crybaby PC Board. Loaded with all necessary components	P-ECB-25	18.25
Stereo Jack	P-ECB-18	2.95
Rubber Feet with Screws. Package of four	P-ECB-151	2.25
Knob	P-ECB-130	1.95
Knob Cover	P-ECB-131	1.95
Gear for Wah	P-ECB-126	1.25
Rack for Wah	P-ECB-127	1.25
Offset Grommets. 3 large, 3 small. For Wah	P-ECB-124	1.25
Self Adhesive Backed Bump-Ons. Dimensions: 5/32" high x 7/16" diameter. 20 bumps per order	P-H16-150	3.60



See page 43 for potentiometers.



## ADAPTERS

AC Plug for Dunlop pedals. 9 volt. US	P-ECB-002	\$5.50
AC Barrel for Dunlop pedals. 9 volt. US	P-ECB-003	9.50
ProCo Rat battery eliminator	M-RPS1	14.95

## 9 VOLT CLIPS

Package of 3	S-H155	\$0.45
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## MORLEY EFFECTS PEDAL PARTS

Replacement Light Bulb	P-LTX387	\$1.95
Photocell	R-VP01	1.95



# EFFECTS PARTS

info@tubesandmore.com • FAX: 480.820.4643 or toll free fax: 800.706.6789

P-H1090

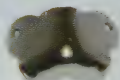
P-H1091  
P-H1092

Gold

Silver



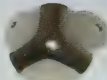
P-H1093



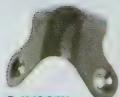
P-H1082N



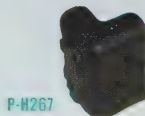
P-H1080N



P-H1084N



P-H1087N



P-H267



P-H250



P-H9107

P-H9110

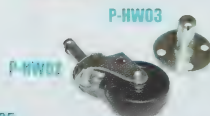


P-H252



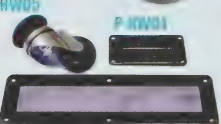
P-H9200

P-HW03



P-HW01

P-HW05



P-HW01

P-HW06

**CORNERS****Original Marshall™**

Rear corner set, Set of 4

Front corner set, Set of 4

Corners for left and right positions. One of each

Gold rivets for fastening corners. Bag of 20

Gold rivets for fastening corners. Box of 100

Silver rivets for fastening corners. Bag of 20

Silver rivets for fastening corners. Box of 100

P-H1090	\$9.95
P-H1091	9.95
P-H1092	9.95
S-HMR-20G	7.00
S-HMR-100G	19.95
S-HMR-20S	7.00
S-HMR-100S	19.95

**Original Fender®**

3-leg, package of 4.

2-leg, package of 4.

P-H298	\$4.95
P-H299	4.95

**Original Vox™**

Plastic corners. Sold individually

P-H1093	\$3.95
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**Generic**

Industry standard 3-leg back side corner cover for vinyl or carpet covered cabinets. 18 gauge steel

2-leg corner. Use where total material thickness is 1/2" or more.

Works on carpet or vinyl. 18 gauge steel

Corner wraps around inside edge of cabinet.

Works on 3/4" of wood + material thickness. 18 gauge steel

Corner wraps around inside edge of cabinet.

Works on 3/4" of wood + material thickness. For Fender®

Plastic, small stacking chevron corner. Ideal for carpet covered cabinets.

Approx. 2-2/5" high, sides are 1" wide

Heavy duty plastic, large stacking chevron corner. Ideal for carpet

covered cabinets. Approx. 3-1/4" high, sides are 2" wide

Stainless steel pan head Phillips self-tapping screws. #6 x 3/4" length.

Good for use with P-H1080N, P-H1082N &amp; P-H1084N. Package of 12

Stainless steel flat head Phillips self-tapping screws. #6 x 3/4" length.

Good for use with P-H266 &amp; P-H267 &amp; P-H1087N. Package of 8

P-H1080N	\$0.95
P-H1082N	.95
P-H1084N	.95
P-H1087N	.95
P-H266	1.25
P-H267	1.75
S-H101	1.50
S-H102	1.50

**FEET**

Original Fender® Sphinx Glides. Package of 4

Large tapered rubber foot with zinc washer. 1-3/4" dia.

Screw not included. Package of 4

Large untapered rubber foot, 1" x 1/2" dia. Sold individually

Original Marshall™ Sprung feet. Set of 2

Original Vox™ Rubber foot. Sold individually.

**Screw On Type:**

1/2" diameter x 1/4" high, package of 4

5/16" diameter x 3/8" thick, package of 4

**Recessed Bumpers:**

5/8" diameter x 1/2" high, package of 4

5/8" diameter x 1/2" high, Steel insert, package of 4

1" diameter x 1" high, package of 4

1" diameter x 1" high, Steel insert, package of 4

P-H250	\$4.95
P-H9107	3.00
P-H9110	.60
P-H252	13.95
P-H9200	3.95
P-H1308	\$1.50
P-H253	2.00
P-H2082	2.40
P-H2082S	2.90
P-H2097	5.60
P-H2097S	5.60

P-H1308  
P-H253

P-H2097



P-H2082

**CASTERS**

Heavy duty swivel caster. 2" diameter wheel supports 44 lbs. Comes with or without socket.

Caster &amp; Socket

Save 10% on the set of 4 Casters and Sockets

Caster only

Socket only

Caster (1.8") and socket. Original Marshall™. Sold individually

Caster cup, package of 4. Original Marshall™.

Anti-skid tray. Original Marshall™.

P-HW01S	\$5.50
	19.80
P-HW02	3.95
P-HW03	1.95
P-HW05	\$19.95
P-HW04	11.95
P-HW06	11.95

**CORNERS & FEET**



## FENDER® & REPLACEMENT AMP HANDLES

High quality handles for vintage Fender® amps. Will work on other amplifiers as well.

	Center to Center (")	Part	Price
Original Fender® brown molded dogbone. Hardware included	6"	P-H269BR	\$14.95
Original Fender® black molded dogbone. Hardware included	6"	P-H269BK	14.95
Black strap with silver caps. Replacement for Fender®	8-1/4"	P-H261	5.95
Black strap with black caps. Replacement for Fender®	8-1/4"	P-H261B	5.95
Brown leather-raised. Replacement for Fender®	6-1/2"	P-H262	7.95
Brown leather-flat. Replacement for Fender®	6-1/2"	P-H263	7.45
Chrome hardware for P-H262 & P-H263. Screws not included.		P-H282A	1.50

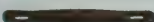
P-H261



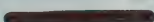
P-H261B



P-H262



P-H263



*Fender*

P-H262A

P-H269BR

P-H269BK

## MARSHALL™ HANDLES

Vintage strap. Large, black w/black caps	P-H294	\$11.95
Vintage strap. Large, black.		
For use with P-H295-CMP & P-H295-GC, sold separately below	P-H295	15.95
Old style inner clamp. Sold individually	P-H295-CMP	4.50
Gold cap for vintage handle. Sold individually	P-H295-GC	7.95
Recessed plastic side handle for cabinets	P-H296	21.95

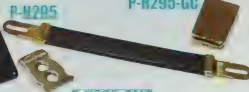
*Marshall*

P-H294



P-H295

P-H295-GC



P-H296

P-H295-CMP

## HANDLES FOR AMPEG AND OTHER AMPS

Replacement handles for vintage Ampeg amps. Will work on other amplifiers as well.

	Center to Center (")	Part	Price
Large vintage handle. Blue	7-3/8"	P-H280	\$13.95
Large vintage handle. Black	7-3/8"	P-H281	13.95
Large vintage handle. Brown	7-3/8"	P-H283	13.95
Strap Handle. Black	6"	P-H282	10.95
Strap Handle. Brown	6"	P-H284	10.95
Chrome hardware for P-H282 & P-H284 (above).			
Sold individually, screws not included.		P-H282A	1.50

*Marshall*

P-H280



P-H281



P-H283



P-H282



P-H284



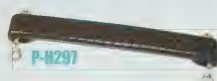
## ORIGINAL VOX™ HANDLE

Original Vox™ Handle with brackets.



P-H297 15.95

P-H297



## GUITAR CASE HANDLES

	Center to Center (")	Part	Price
Black, used on Fender® and other cases	4-1/2"	P-H285	\$5.95
Suntan, used on Fender® Tweed and others, leather.	4-1/2"	P-H286	9.95

P-H285



P-H286



## REPLACEMENT HANDLES

Good for antique radios, lunchboxes, toolboxes and other general applications. Mounting centers are 5 1/2" apart, but can accommodate a distance of 6". Does not include hardware.

	Center to Center (")	Part	Price
Dark brown with light brown stitching	6-1/2"	P-H220	\$3.95
Dark brown with black stitching	6-1/2"	P-H221	3.95
Dark blue with red stitching	6-1/2"	P-H222	3.95
Light brown with black stitching	6-1/2"	P-H223	3.95

P-H220



P-H223



## FLIP TOP LATCH/SUITCASE HOOK

Original Ampeg	P-H300	\$4.25
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*Ampeg*



**HANDLES**

S-M602

S-M601

S-M600

S-M603

1960  
ClassicJCM 900  
LEAD - 19601960  
Vintage**MARSHALL™ LOGOS**

Replacement for Marshall™ Amps

6" logo, gold Used on many late 60's amps	S-M603	\$29.95
6" logo, white	S-M600	15.95
9" logo, white	S-M601	17.95
11" logo, white	S-M602	17.95

**MARSHALL™ BADGES/LEAD PLATES**

JCM 900 Lead plate	S-M650	\$4.95
Vintage 1960 Lead plate	S-M651	4.95
1960 Classic Lead plate, gold	S-M652	6.50

**FENDER® LOGOS**

For use on Original Fender® equipment only!

Flat Brown	S-M911	\$24.95
Flat Black	S-M916	24.95
Tweed Brown	S-M913	19.95
Tweed Black	S-M917	19.95
Blackface with Tail	S-M912	24.95
'70's Small Logo (CBS)	S-M915	19.95
Tweed Bassman®	S-M914	19.95

Black Screws for attaching logos and other light weight items.

#4 x 1/2" sheet metal/wood screws, oval head, black oxide finish.

Sold in packs of 25.	S-H103	3.95
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**VOX™ LOGOS**

Gold, small, for AC10 and AC50	S-M700	\$8.95
Gold, large, for AC30	S-M701	17.95
Vertical nameplate for T-60 and T-25	S-M702	12.95

**AMPEG LOGOS**

Original Ampeg Amp logos

Script Logo	S-M919	\$11.95
Metal Logo	S-M920	11.95
Plexi-logo	S-M918	16.95

**FENDER® FRONT PANELS**

Super Reverb®	P-H700	\$29.95
Deluxe Reverb®	P-H701	29.95
Twin Reverb®	P-H702	29.95

**VOX™ PANEL**

AC30 control panel	P-H740	\$69.95
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P-H700

P-H701

P-H702

S-M920

S-M919

S-M918

Super  
Reverb AmpDeluxe  
Reverb AmpTwin  
Reverb Amp

LOGOS

54

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## Original Marshall™ and Replacement Footswitch Boxes

One button original Marshall™	P-H870	\$31.95
One button, Marshall™ style with 1/4" plug	P-H470	14.95
Two button, original Marshall™ channel & reverb	P-H871	35.95
Two button, original Marshall™ channel & chorus	P-H872	35.95
Two button, original Marshall™ reverb & chorus for AS50R & AS80R	P-H873	35.95
Two button, Marshall™ style with 1/4" plug	P-H471	19.95
One button, original Marshall™ with LED	P-H874	31.95
One button, Marshall™ style with LED and 1/4" plug	P-H470-LED	16.95
Two button, original Marshall™ with LED, clean/O.drive and OD1/OD2, for VS100R & VS100RH	P-H875	41.95
Two button Marshall™ style with LED and 1/4" plug	P-H471-LED	21.95
Three button, original Marshall™ with LED, clean/O.drive; OD1/OD2 & chorus	P-H876	41.95
Three button Marshall™ style with LED and 1/4" plug	P-H473	29.95
Three button, original Marshall™ with LED for 6100 & 610	P-H877	112.95
Four button, original Marshall™ with LED, for JMP-1	P-H878	159.95
Five button original Marshall™ for TSL60, 100, 122, 601 & 602. Channel (clean, crunch, lead); reverb & FX	P-H879	159.95



P-H471

P-H470-LED

P-H470

P-H471-LED

P-H877

P-H473

P-H879



## Original Fender® and Replacement Footswitch Boxes

One button, original Fender® vintage style w/RCA plugs	P-H270	\$31.95
Two button, original Fender® vintage style w/RCA plugs	P-H271	39.95
One button, replica of Fender® Brown, vintage style with RCA plug	P-H270-BRN	32.95
Two button, original Fender®, 1/4" plug. Vibroking (Fat & Vibe)	P-H290	44.95
One button, original Fender®, 1/4" plug. Blues Jr. (Fat)	P-H291	34.95
Two button, original Fender®, 1/4" plug. Hot Rod Series (channel & drive)	P-H292	33.95
Two button, original Fender®, 1/4" plug. (channel & chorus)	P-H293	34.95



## Vox™ Footswitch Boxes

Two button for Pathfinder	P-H880	\$32.95
For AC30	P-H881	87.95



## Korg™ Footswitch Controllers

EC5 external controller for keyboards	P-H890	\$89.00
PS1 pedal switch	P-H891	33.95



# FOOTSWITCH BOXES

Fender



S-H252

S-H253

S-H251



P-H213

P-H211

S-H800  
S-H801

P-H210

P-H215

P-H214

**FENDER® TILT BACK LEGS**

Available in three sizes. Contains two in each pack, plus hardware.

14" small	P-H265S	\$26.95
16" medium	P-H265M	28.95
19" large	P-H265L	35.95

**FENDER® CHASSIS STRAPS**

Available in three sizes. Contains two in each pack. Hardware included.

3" small	P-H264S	\$7.95
4" medium	P-H264M	7.95
5" large	P-H264L	8.50
Additional screws, package of 12	P-H264-12	9.95

**FENDER® PIGGYBACK ITEMS**

Thumb Screws, Package of 2	S-H251	\$13.95
Clip Bars, Package of 2	S-H252	24.95
Bushings, Package of 2	S-H253	17.95

**FENDER® CAPACITOR COVERS**

Dimensions (L x W x H)

Twin Reverb®	7 3/4" x 3 1/2" x 1 1/4"	P-H710	\$9.95
Vibroverb®	5 3/4" x 3" x 1 1/4"	P-H711	12.95
Bassman®	5" x 3" x 1 1/2"	P-H712	14.95

**MARSHALL™ AMP PARTS**

Top metal vent	P-H210	\$21.95
Large plastic vent, 17.5" length	P-H211	5.95
Back metal panel as used on JCM 800	P-H212	79.95
1987 back panel, 24 1/8" x 7 3/4"	P-H213	69.95
Switchable stereo/mono jack plate for back of cabinets	S-H800	39.95
Mono/stereo jack plate for back of cabinets	S-H801	19.95
Jack cup for input jack on speaker cabinets	P-H150	8.95

**VOX™ VENTS**

Old style plastic vent	P-H214	\$4.95
Metal vent	P-H215	8.95

**SPEAKER GRILLS**

Metal grills have flat black finish with rubber edge trim.

Mounting brackets are sold separately.

8"	P-HSG008	\$2.95
10"	P-HSG010	4.95
12"	P-HSG012	5.95
15"	P-HSG015	6.95
Mounting Bracket (sold individually)	P-HSGA1	.50

**FENDER® AMP COVERS**

'65 Twin Reverb®, Black	P-HCF-101	\$14.95
'65 Deluxe Reverb®, Black	P-HCF-102	14.95
'59 Bassman®, Brown	P-HCF-103	14.95
Super Reverb®, Black	P-HCF-104	14.95

**MARSHALL™ AMP COVERS**

Fits all full size heads	P-HCM-201	\$31.95
Fits slanted 4x12 cabinets except the 1960TV	P-HCM-202	39.95
Fits straight 4x12 cabinets	P-HCM-203	39.95

**VOX™ AMP COVERS**

AC30, Black	P-HCV-301	\$44.95
Pathfinder, Black	P-HCV-302	27.95

AMP PARTS &amp; COVERS



## ORIGINAL MARSHALL™ INDICATORS

Indicator light, square. 6V	P-L14-6	\$9.95
Indicator light, square. 120V	P-L14-120	7.95

## JEWELS

Red	P-L115	\$1.95
Green	P-L116	1.95
Amber	P-L117	1.95
Blue	P-L120	1.95
Purple	P-L121	2.25
Violet	P-L121V	1.95
Clear	P-L122	2.25
White	P-L123	2.25

## DIAL LAMPS / BULBS

Long life general replacement lamps for dials, indicators, etc. Packages of 10 except where noted.

Type	Volts	Amps	Base	Bulb	Part	Price
40	6.3	.15	screw	T-3-1/4	P-40	\$2.95
41	2.5	.50	screw	T-3-1/4	P-41	2.95
42	3.2	.35	screw	T-3-1/4	P-42	2.95
43	2.5	.50	bayonet	T-3-1/4	P-43	2.95
44	6.3	.25	bayonet	T-3-1/4	P-44	2.95
45	2.5	.35	bayonet	T-3-1/4	P-45	2.95
46	6.3	.25	screw	T-3-1/4	P-46	2.95
47	6.3	.15	bayonet	T-3-1/4	P-47	2.95
48	2.0	.06	screw	T-3-1/4	P-48	2.95
49	2.0	.06	bayonet	G-3-1/4	P-49	2.95
50	7.5	.22	screw	G-3-1/4	P-50	2.95
51	7.5	.22	bayonet	G-3-1/4	P-51	2.95
53	14.4	.12	bayonet	G-3-1/4	P-53	2.95
55	7.0	.41	bayonet	G-3-1/4	P-55	2.95
57	14.0	.24	bayonet	G-3-1/4	P-57	2.95
81	6.5	1.02	bayonet	G-6	P-81	each 1.25
NE2	120	.0007	wire	T-2	P-NE2	each 1.95
NE45	105/125	.002	screw	T-4-1/4	P-NE45	each 2.95
NE51	90/110	.0003	bayonet	T-3-1/4	P-NE51	each 1.95

## LAMP SOCKETS / HOLDERS

Pilot Lamp Holder. Replacement for Fender®

(Does not include jewel)	P-L124	\$2.25
Lamp holder	P-L110	2.95
Miniature bayonet lamp socket for #44 & #47 lamps etc.	P-L103	.50
Miniature bayonet lamp socket for #44 & #47 lamps etc.	P-L104	.75
Bayonet lamp socket	P-L101	1.50

## FUSES

1/4" dia. x 1-1/4" long. Protect your expensive investment or hobby with the right fuse.  
Fits fuse block S-H259 and fuse holders S-H201 & S-H254. Package of 5 fuses.

### Fast-Blo

1/4 amp	F-ZF005	\$1.95
1 amp	F-ZF010	1.95
1-1/2 amps	F-ZF015	1.95
2-1/2 amps	F-ZF020	1.95
3 amps	F-ZF025	1.95
4 amps	F-ZF035	1.95
5 amps	F-ZF040	1.95

### Slo-Blo

1 amp	F-ZS010	\$2.95
2 amps	F-ZS020	2.95
3 amps	F-ZS025	2.95
4 amps	F-ZS035	2.95
5 amps	F-ZS040	2.95

## FUSE HOLDERS

In-line fuse holder	S-H254	\$0.85
Marshall™ replacement	S-H200	2.95
Fender® replacement. 1/2" dia. chassis hole	S-H201	1.75
Fuse Block	S-H259	1.95



## MORLEY REPLACEMENT BULB

Replacement for Morley effects pedals  
P-LTX387 \$1.95



Custom made fabric to duplicate early radio speaker cloth. Colors may vary somewhat due to different lots and fabrics used. Sold in 12" x 12" pieces or by the foot in increments of 6" after the first 12". If you would like a small sample to evaluate before making your purchase, they are available: first two are free, \$0.75 each after that.

Due to photographic and printing limitations, colors of the fabrics may not be 100% accurate.



S-G4115 12" x 12" \$12.00 ea  
S-G4115F 30" width 19.95/ft



S-G429 12" x 12" \$8.00 ea  
S-G429F 24" width 14.00/ft  
Philco Model 60 for years 1934, 1935 and early 1936. (see S-G440 for late 1936+)



S-G430 \$21.95/ft  
31" appx. width. Sold only by the foot due to the pattern. Has two chevron widths appx. 12" and 19" wide



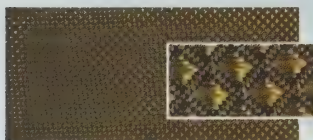
S-G431 12" x 12" \$9.00 ea  
S-G431F 24" width 15.00/ft  
Philco 70, 90, 89, 10; Zenith 8-S-463, 9-S-367; Grunow, Crosley and others from late 1930's



S-G432 12" x 12" \$9.00 ea  
S-G432F 24" width 15.00/ft  
For Emerson Models



S-G434 12" x 12" \$9.00 ea  
S-G434F 24" width 15.00/ft  
RCA 100A Speaker



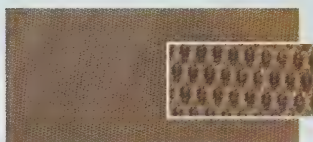
S-G435 12" x 12" \$8.00 ea  
S-G435F 24" width 14.00/ft  
RCA, GE and Westinghouse models



S-G436 12" x 12" \$8.00 ea  
S-G436F 24" width 14.00/ft



S-G440 12" x 12" \$9.00 ea  
S-G440F 24" width 15.50/ft  
Philco Model 60 late 1936 and up



S-G441 12" x 12" \$8.00 ea  
S-G441F 24" width 14.00/ft  
Philco 84



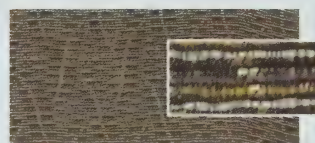
S-G959 12" x 12" \$8.00 ea  
S-G959F 24" width 14.00/ft  
Zenith consoles from the late 1930's



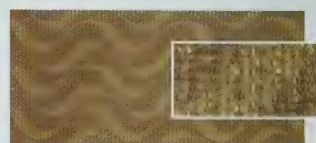
S-G961 12" x 12" \$9.00 ea  
S-G961F 24" width 15.00/ft  
Smaller Zenith consoles from the late 1930's



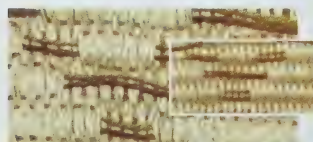
S-G963 12" x 12" \$8.00 ea  
S-G963F 24" width 14.00/ft  
Zenith, Fada, Silvertone from the 1930's



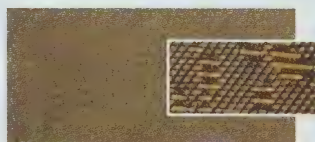
S-G964 12" x 12" \$9.00 ea  
S-G964F 24" width 15.00/ft  
Deco looking consoles from 1937 Zenith leaf design



S-G965 12" x 12" \$10.00 ea  
S-G965F 24" width 16.00/ft  
Zenith swirl, Shutterdale and Walton, Tombstone Sets. Reversible



S-G966 12" x 12" \$9.00 ea  
S-G966F 24" width 15.50/ft  
Philco Diamond for 1939 and 1940 models



S-G967 12" x 12" \$8.00 ea  
S-G967F 3 24" width 14.00/ft  
Zenith consoles from the 1940's



S-G970 12" x 12" \$9.00 ea  
S-G970F 24" width 15.00/ft



# GRILL CLOTH

## Speaker Cloth

Package of one sample of each radio grill cloth.

S-GSR1 \$9.95

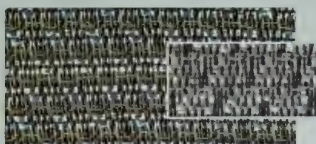


## GUITAR AMP GRILL CLOTH

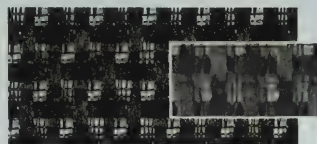
Replacement grill cloth as found on modern and vintage guitar amps. Cloth is 34" high unless otherwise noted and is sold per linear yard. Order enough to cover the width of your cabinet, plus a bit for frayed edges. Note: The exact coloring and patterns of the grill cloth are very hard to reproduce. If you would like a small sample to evaluate before making your purchase, they are available: first two are free, \$0.75 each after that, or you may order a packet of these grill cloth samples for \$9.95. The part number is S-GSG1.



**S-G293 Black/Silver** \$19.95/yd  
Original Ampeg



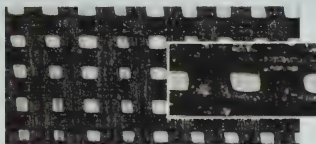
**S-G294 Blue SVT** \$26.95/yd  
Original Ampeg



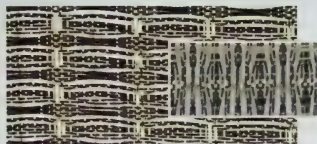
**S-G296 Black Basket** \$19.95/yd



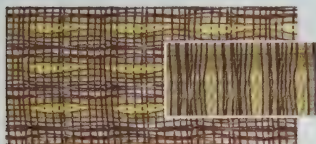
**S-G297 Brown Basket** \$19.95/yd



**S-G299 Black Waffle** \$19.95/yd



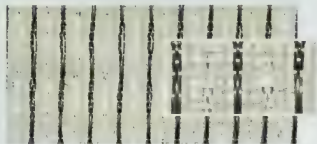
**S-G300 Black/Gold** \$21.95/yd



**S-G301 Oxblood/Yellow** \$19.95/yd



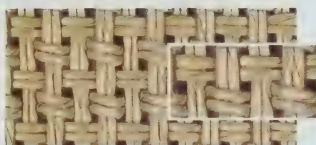
**S-G302 Oxblood** \$19.95/yd



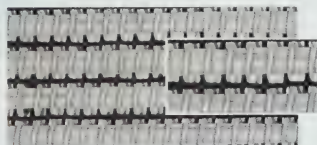
**S-G303 Black/Silver/Gray** \$19.95/yd



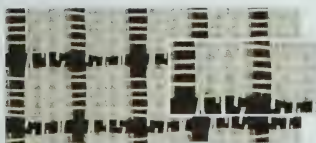
**S-G304 Blue/Black/Silver/White** \$24.95/yd



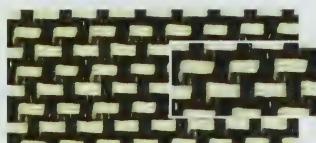
**S-G400 Cane(biscuit)** \$32.95/yd  
33" width, Original Marshall™.



**S-G401 Bluebreaker** \$24.95/yd  
33.5" width, Original Marshall™.



**S-G402 Large Check** \$34.95/yd  
32" width, Original Marshall™.



**S-G403 Salt & Pepper** \$34.95/yd  
32" width, Original Marshall™.



**S-G420 Black Diamond** \$44.95/yd  
44" width, Original Vox™.

# GRILL CLOTH

info@tubesandmore.com • FAX: 480.820.4643 or toll free fax: 800.706.6789

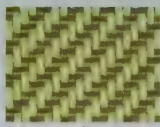
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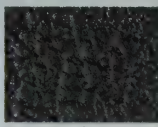
GRILL CLOTH

## TOLEX/CABINET COVERING

Replacement cabinet covering is 54" wide, unless otherwise noted, and is sold per linear yard. Order enough to cover the width of your cabinet, plus a bit for edges. Note: The exact color and pattern of the cabinet covering are very hard to reproduce. If you would like a small sample to evaluate before making your purchase, they are available: first two are free, \$0.75 each after that, or you may order a packet of these tolex samples for \$9.95. The part number is S-GSG2.



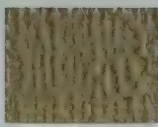
**S-G305 \$26.95/yd**  
64" Width  
Woven Tweed  
Original Fender®



**S-G306 \$18.95/yd**  
Black Tolex



**S-G307 \$29.95/yd**  
Cream Tolex  
Original Fender®



**S-G307-A \$19.95/yd**  
Vintage Vanilla (Cream),  
Nubtex



**S-G308 \$29.95/yd**  
Brown Tolex  
Original Fender®



**S-G308-A \$19.95/yd**  
Vintage Palomino (Brown),  
Nubtex



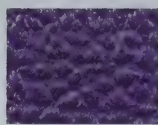
**S-G309 \$29.95/yd**  
Diamond Blue  
Original Ampeg



**S-G310 \$29.95/yd**  
Nubby Tweed  
Original Ampeg



**S-G404 \$19.95/yd**  
50" Width  
Black Levant  
Original Marshall™



**S-G405 \$34.95/yd**  
50.5" Width  
Purple Levant  
Original Marshall™



**S-G405-A \$19.95/yd**  
Purple, Bronco/Levant



**S-G406 \$19.95/yd**  
52.5" Width  
Black Elephant  
Original Marshall™



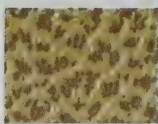
**S-G407 \$21.95/yd**  
53.5" Width  
Red Elephant  
Original Marshall™



**S-G407-A \$19.95/yd**  
Red Bronco/Levant



**S-G408 \$19.95/yd**  
British Emerald Green,  
Bronco/Levant



**S-G409 \$19.95/yd**  
Cocoa Brown,  
Bronco/Levant



**S-G410 \$19.95/yd**  
Black, Taurus  
Used by Mesa Boogie®



**S-G415 \$19.95/yd**  
35" Width  
Black  
Original Vox™



### TOLEX ADHESIVE 3M SUPER 77

S-F315 \$13.95

Spray adhesive ideal for bonding tolex (or any other cloth, foil, felt, paper, etc.) to plastics, painted or unpainted metals, wood, hardboard and many other materials. Provides high coverage (over 160 sq. ft. per can), faster, more aggressive tack, longer bonding range and lower soak-in. Two spray tips are provided, one for large bonding areas and the other for smaller bonding areas. 16.5 oz aerosol can. *Not available for sale to California due to VOC rating.*

### TOLEX GLUE

S-F316 \$14.95

Brush-on adhesive ideal for applying tolex. Cleans up with soap and water. No nasty solvents required. Does not stretch or shrink the vinyl. 1 Quart.



S-GP001



S-GP002



S-GP003

### MARSHALL™ ORIGINAL PIPING

Gold Piping, thick.	S-GP001	\$1.80/ft
Gold Piping, thin.	S-GP002	\$1.60/ft
White Piping.	S-GP003	\$1.80/ft



S-GP008



S-GP009

### VOX™ ORIGINAL PIPING

Gold cabinet string, sold by the foot	S-GP008	\$1.50
Fascia strip, sold in 14 1/4" lengths	S-GP009	7.65



# TOLEX

60

Antique Electronic Supply • 480.820.5411 • [www.tabesandmore.com](http://www.tabesandmore.com)



## LEO QUINN BADASS™ BRIDGES

All BADASS™ products are made of specially developed high density alloy Zinc. Engineered for the most efficient sound-coupling effects possible when mounted on wood guitar & bass bodies. The transference of resonance characteristics is superior to any other metal. BADASS™ products are designed by professional guitarists and bass players. Installation is simple though we recommend the services of a Professional Guitar technician for best results in setting the strings and calibrating the harmonics.



### BASS II BRIDGE

The Badass™ Bass II is a direct Fender® bridge conversion, requiring no modifications or alterations to your bass. Can be used in P-bass and J-bass.

Chrome	P-BAII-C	\$73.95
All black	P-BAII-B	93.95
Gold	P-BAII-G	108.95
Old Nickel	P-BAII-N	84.95

### BASS V BRIDGE

This is a 5 string version of the Badass™ II bass bridge that has become world famous over the years as a replacement for Fender® bridges. This is one of the best bass bridges you can buy and is in use on countless basses world-wide. Chrome.

P-BAV-C \$98.95

### GUITAR BRIDGE

The Badass™ Guitar Bridge is designed to retrofit the original Gibson® combination tailpiece bridges. It allows you to intonate each string individually where the original bridge did not. Can be used in most Les Paul's. Old nickel.

P-BAGT-N \$83.95

## FENDER® BRIDGES

Made from the highest quality materials, Fender® bridge sections come with springs and screws.

Vintage Tele, 3-saddle. Chrome	P-GTVT-C	\$39.95
American Vintage assembly for '62 reissue Strat. Nickel-plated Fender® saddles and 6 mounting screws define the vintage tone of this tremolo assembly.	P-GTVS-N	69.95

Vintage Strat tremolo assembly. Since the creation of the Stratocaster®, this vintage tremolo has remained virtually unchanged. Two heavy-duty pivot screws allow you to do a variety of vibrato work while the solid steel saddles provide the tone and sustain that is truly Fender®. Nickel

P-GTAM 69.95

## FENDER® SADDLES

Vintage Strat. Nickel-plated saddles with centered intonation screws.

Set of 6	P-GTBS-VS	\$18.95
American Series. Powder coated steel bridge sections with offset intonation screws. Set of 6	P-GTBS-AM	18.95
Vintage Tele, Brass with centered intonation screws. Set of 3	P-GTBS-VT	15.95

## GIBSON® BRIDGES With full assemblies

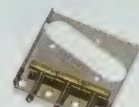
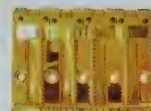
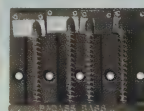
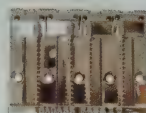
Chrome ABR-1	P-GTABR-C	\$49.95
Nickel ABR-1	P-GTABR-N	49.95
Gold ABR-1	P-GTABR-G	49.95
Chrome Nashville Tune-o-Matic	P-GTTOM-C	49.95
Gold Nashville Tune-o-Matic	P-GTTOM-G	49.95

## GIBSON® SADDLES

6 ABR-1 replacement saddles and screws. Chrome	P-GTBS-ABR-C	\$19.95
6 ABR-1 replacement saddles and screws. Gold	P-GTBS-ABR-G	19.95
6 Nashville Tune-o-Matic replacement saddles and screws. Chrome	P-GTBS-TOM-C	19.95
6 Nashville Tune-o-Matic replacement saddles and screws. Gold	P-GTBS-TOM-G	19.95

## GIBSON® TAILPIECES Stop bars with studs and inserts

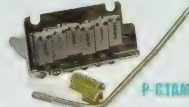
Chrome	P-GTBAR-C	\$39.95
Nickel	P-GTBAR-N	39.95
Gold	P-GTBAR-G	39.95



P-GTVT-C



P-GTVS-N



P-GTAM



P-GTBS-VS



P-GTBS-AM



P-GTBS-VT



P-GTABR-C



P-GTABR-G



P-GTABR-N



P-GTBS-ABR-C

P-GTBS-ABR-G



P-GTBS-TOM-C

P-GTBS-TOM-G



P-GTBAR-N



P-GTBAR-G

# BRIDGES



**GIBSON® TUNER MACHINE HEADS**

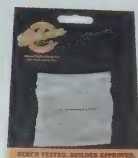
Vintage nickel with pearloid buttons. Set of 6	P-GTMH20	\$59.95
Vintage gold with pearloid buttons. Set of 6	P-GTMH21	62.95
Modern nickel with metal buttons. Set of 6	P-GTMH22	39.95
Modern gold with metal buttons. Set of 6	P-GTMH23	42.95
Black Grover. Set of 6	P-GTMH24	39.95

**FENDER® TUNER MACHINE HEADS**

Vintage style for Strats and Teles. Set of 6	P-GTMH01	\$37.95
1970's "F" style. Set of 6	P-GTMH02	39.95
American Series. Chrome. Set of 6	P-GTMH03	39.95
Vintage tuner mounting screws. Pkg of 12	P-GTTS	2.50

**GIBSON® FRET WIRE & NUTS**

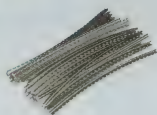
Gibson. Pre-cut 2½" length. 26 pieces	P-GTFW21	\$11.95
Plastic nut for Gibson. 1½" pre cut	P-GTNN01	3.75



P-GTFW21



P-GTNN01

**FENDER® FRET WIRE**

Fender® Standard guitar. Pre-cut, 24 pieces	P-GTFW01	\$9.95
Fender® Vintage guitar. Pre-cut, 24 pieces	P-GTFW02	9.95

**FENDER® TREMOLO ARMS**

Original. For American Stratocaster®	P-GTARM01	\$9.95
Original. For Vintage Stratocaster®	P-GTARM02	10.95

**GIBSON® TOUCHUP PENS**

The nitrocellulose lacquer helps protect exposed wood.  
The factory approved pigment helps to match the original finish.

Antique Natural	S-F400	\$4.95
Clear	S-F401	4.95
Ebony	S-F402	4.95
Wine Red	S-F404	4.95

**GIBSON® VINTAGE REISSUE GUITAR RESTORATION KIT**

Includes restoration cream, premium fretboard conditioner, low-abrasion metal cleaner, and two polishing cloths. P-GTRK1 \$12.95

**GIBSON® STRINGS**

Vintage Re-Issue Pure Nickel

.009-.042	S-SVR9	\$5.25
.010-.046	S-SVR10	5.25
.011-.050	S-SVR11	5.25

Les Paul® Pure Nickel

.009-.042	S-SLP9	5.85
.010-.046	S-SLP10	5.85



# GUITAR PARTS



## FENDER® STRATOCASTER® PICKGUARDS

For American Stratocasters®. Fits most American and Mexican Strats.		
11-hole, 3-ply. Black	P-PG10B	\$16.95
For American Stratocasters®. Fits most American and Mexican Strats.		
11-hole, 3-ply. White	P-PG10W	16.95
For Vintage Strats, 11-hole, 3-ply. Black	P-PG12B	18.95
For Vintage Strats, 11-hole, 3-ply. White	P-PG12W	18.95

## TELECASTER® PICKGUARDS

For most American Telecasters®		
8-hole, 3-ply. Black	P-PG14B	\$18.95
8-hole, 3-ply. White	P-PG14W	18.95

## PICKGUARD SCREWS

Original Fender®, Package of 24	P-PGA1	\$3.25
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## PICKGUARD AND PICKGUARD BRACKETS

Original Gibson®. For Les Paul® series guitars.		
Studio black	P-PG50B	\$19.95
Custom black 5-ply	P-PG52B	21.95
Standard cream	P-PG54C	19.95

Bracket, Gold	P-PGB01	9.95
Bracket, Chrome	P-PGB02	8.95
Bracket, Nickel	P-PGB03	8.95

## SWITCHWASHER

Original Gibson®		
Black w/ gold imprint	P-GTWA01	\$3.95
Black w/ white imprint	P-GTWA02	3.95
Cream w/ gold imprint	P-GTWA03	3.95

## TRUSS ROD COVER

Original Gibson®, black, blank	P-GTTR01	\$8.95
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## JACK PLATES FOR GIBSON® GUITARS

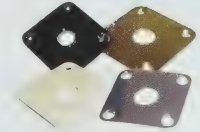
Black plastic	P-H170	\$4.95
Gold	P-H171	9.95
Cream Plastic	P-H172	4.95
Nickel	P-H173	9.50

## GIBSON SWITCHPLATE COVER

Original Gibson® Black	P-GTSP01	\$5.95
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## STRAP BUTTONS

Original Gibson®		
Brass. Package of 2	P-GTSB01	\$3.25
Aluminum. Package of 2	P-GTSB02	3.25



Gibson

**'57 CLASSIC SERIES**

Gibson® Guitars was the true pioneer of electric guitar pickups. They invented the first humbucking guitar pickups and their "Patent-Applied For" pickups are still considered the most sought-after pickups in the world. Their quality and attention to detail makes Gibson® the true measure of your guitar sound.



A neck or bridge position vintage sounding "Patent Applied For" humbucker. Great variety of tonal possibilities with emphasis on high and low end.		
57 Classic, Humbucker, Gold cover	P-PUG1	\$105.95
57 Classic, Humbucker, Nickel cover	P-PUG2	99.95

A neck or bridge position vintage humbucker with more output than the '57 Classic. Great clean sound that can produce crunchy rhythms and high gain leads that are enhanced by the extra distortion that this pickup can generate.

57 Classic Plus, Humbucker, Gold cover	P-PUG3	\$114.95
57 Classic Plus, Humbucker, Nickel cover	P-PUG4	109.95

**BURSTBUCKERS**

For neck or bridge position

Humbucker. Slightly underwound with medium "vintage" output	P-PUG17	\$122.95
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Humbucker. Wound in the range of the '57 Classic with slightly hotter "vintage" output

P-PUG18	\$122.95
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Humbucker. Hotter output, works well with P-PUG17 in neck position

P-PUG19	122.95
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**490 SERIES**

A neck position "modern" vintage humbucker. The tonal characteristics provide a combination of rich, full lows and increased treble clarity.

490R Modern Classic, Humbucker, Chrome cover neck	P-PUG5	\$78.95
490R Modern Classic, Humbucker, Double black neck	P-PUG6	71.95
490R Modern Classic, Humbucker, Gold cover neck	P-PUG7	81.95
490R Modern Classic, Humbucker, Nickel cover neck	P-PUG8	78.95

A bridge position "modern" vintage humbucker. The tonal characteristics provide a wide range of possibilities, from great clean rhythms to fat and nasty leads.

490T Modern Classic, Humbucker, Chrome cover bridge	P-PUG9	\$77.50
490T Modern Classic, Humbucker, Double black bridge	P-PUG10	71.95
490T Modern Classic, Humbucker, Gold cover bridge	P-PUG11	78.95
490T Modern Classic, Humbucker, Nickel cover bridge	P-PUG12	78.95

**498T SERIES**

"NOT AINICO"

498T Chrome cover bridge	P-PUG20	\$79.95
498T Gold cover bridge	P-PUG21	79.95
498T Nickel cover bridge	P-PUG22	79.95

**500T SERIES**

Super Ceramic, Humbucker, Bridge or neck

Double Black	P-PUG23	\$74.95
Zebra	P-PUG24	74.95

**P-90 SERIES**

A single coil soap bar style pickup, and a true Gibson® innovation that lives on! The P-90 has a raspy, fat tone with an emphasized midrange punch. It is a rock & roll pickup that has a very unique personality among other pickups. Bridge or neck position.

P-90, Single Coil, Black soapbar cover	P-PUG13	\$67.95
P-90, Single Coil, Black dogear cover	P-PUG14	67.95
P-90 Single Coil, Cream soapbar cover	P-PUG25	67.95
P-90 Single Coil, Cream dogear cover	P-PUG26	67.95

**PICKUP MOUNTING RINGS**

1/8", neck. Black	P-PUGMR-NB	\$5.95
1/8", neck. Cream	P-PUGMR-NC	5.95
3/8", bridge. Black	P-PUGMR-BB	5.95
3/8", bridge. Cream	P-PUGMR-BC	5.95

GIBSON® PICKUPS



## STRATOCASTER® LACE-SENSORS

Low noise and high output for incredible response and sustain. Each color represents a different sound: Gold is the classic Vintage Strat sound with glassy bell like tones. Blue is warm and loud like an old 50's humbucker.

Each comes with a white cover.

Gold	P-PUF56	\$53.95
Blue	P-PUF57	58.95

## STRATOCASTER®

### Texas Special Strat Set of 3 - Bridge, Middle, Neck

Overwound, calibrated, vintage style Stratocaster® pickups with plenty of midrange chirp, crystal highs and tight bass. AlNiCo 5 magnets and enamel coated magnet wire create the increased output that demands respect!

P-PUF50	\$129.95
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### Vintage Noiseless Set of 3 - Bridge, Middle, Neck

Special beveled edge AlNiCo 5 magnets and enamel-coated magnet wire produce the brilliant clarity, definition and harmonic attributes of a vintage Strat in a "noiseless" package. Each Vintage "Noiseless" Strat pickup comes with 3 pots, a capacitor and resistor to enhance your "Noiseless" experience.

P-PUF51	139.95
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'57/'62 Strat Single Coil DC Resistance:

5.6K Inductance: 3.0 Henries	P-PUF52	41.95
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## TELECASTER®

These overwound Tele pickups are constructed with AlNiCo 5 magnets and enamel coated magnet wire. The bridge pickup features height staggered magnets and a copper plated steel bottom plate for increased output, presence and midrange, while the nickel-silver cover on the neck pickup produces a clear warm tone that only a true Custom Shop Tele pickup can do.

Texas Tele Bridge/Neck DC Resistance:

10.5K Inductance: 3.95 Henries	P-PUF53	\$112.95
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Original Tele Neck: DC Resistance:

7.7K Inductance: 2.45 Henries	P-PUF54	49.95
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Original Tele Bridge DC Resistance:

7.2K Inductance: 3.27 Henries	P-PUF55	49.95
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## BASS GUITARS

Fender® Precision Bass Pickup	P-PUF60	\$64.95
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Fender® Jazz Bass Pickup, Neck	P-PUF61	44.95
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Fender® Jazz Bass Pickup, Bridge	P-PUF62	44.95
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## STRINGS

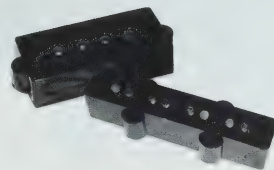
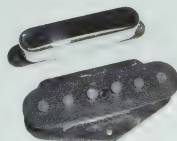
### Original 150's. Ball End

.008-.038	S-S150SL	\$3.45
.009-.040	S-S150XL	3.45
.009-.042	S-S150L	3.45
.010-.038	S-S150	3.45
.010-.046	S-S150R	3.45
.011-.049	S-S150M	3.45

### Original 250's. Ball End

.009-.042	S-S250L	3.45
.010-.046	S-S250R	3.45
.011-.049	S-S250M	3.45

Fender



Fender

FENDER® PICKUPS

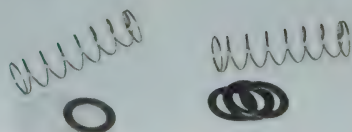
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**MOTOR ASSEMBLY FOR LESLIE 122/147**

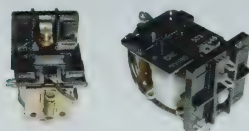
Upper Slow	P-OH-101	\$49.95
Lower Slow	P-OH-102	49.95

**MOTOR REBUILD KITS FOR LESLIE 122/147**

Upper Slow	P-OH-201	\$4.50
Lower Slow	P-OH-202	4.50

**LESLIE BELTS**

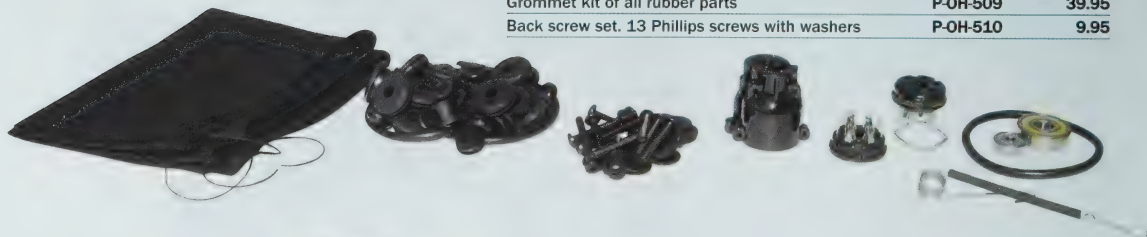
Upper drive. 25.5"	P-OH-301	\$15.95
Lower drive. 31"	P-OH-302	17.95

**LESLIE RELAYS**

110 VDC for the 122	P-OH-401	\$29.95
115 VAC for the 147	P-OH-402	29.95

**MISCELLANEOUS LESLIE PARTS**

O Ring. Large pulley rim drive	P-OH-501	\$3.75
17" rotor cover for 122 and 147	P-OH-502	24.95
Upper belt tension spring	P-OH-503	10.95
Upper tension idler bearing	P-OH-504	13.95
Lower rotor bearing	P-OH-505	13.75
Plug. 6 pin. Male	P-OH-506	9.95
Socket. 6 pin. Female	P-OH-507	9.95
Plug cover kit for connectors	P-OH-508	9.95
Grommet kit of all rubber parts	P-OH-509	39.95
Back screw set. 13 Phillips screws with washers	P-OH-510	9.95



**Jensen**  
loudspeakers

**JENSEN® REPLACEMENT SPEAKERS FOR LESLIE CABINETS**

Available in 8 and 16 ohms. Please specify when ordering.

P15N- AlNiCo magnet. 50 Watts	P-A-P15N	\$179.95
C15N- Ceramic magnet. 50 watts	P-A-C15N	84.95
C15K- Ceramic magnet. 100 watts	P-A-C15K	91.95
Extra gasket for proper spacing of speaker.		
Package of 4, enough for one speaker	P-A-GASKET-15	6.00



# LESLIE/HAMMOND



## KORG™ KEYS

For M1, Trinity, Triton, 01-W, Wavestation and i30 keyboards

High C	P-KEY-HC	\$7.95
A	P-KEY-A	9.95
B & E	P-KEY-B-E	8.95
C & F	P-KEY-C-F	8.95
D	P-KEY-D	8.95
G	P-KEY-G	9.95
Black	P-KEY-BLK	7.95

## KORG™ KEY CONTACTS

Rubber contact strip. 32.5" long.	P-KEY-STR	\$19.95
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For N364 and X5, 5 are required.

For N264, 7 are needed. 12 pieces, may be cut into 3 sets of 4

	P-KEY-CNT-1	5.95
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For N364 and X5, 1 is required to complete set.

Sold individually	P-KEY-CNT-2	5.95
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## KORG™ MIDI SOFTWARE & CABLE

PC compatible software and cable.	B-CD700	\$19.95
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## ORIGINAL KORG™ SWITCH

DPDT push switch, PC mount.	P-MS212	\$5.95
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## TACT SWITCH

Original Korg™	P-MSTACT	\$2.95
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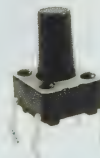
## KORG™ AC ADAPTERS & POWER SUPPLIES

9V, 200-300mA, center + for GT3, DT3, AT1, AT2, and AT120	M-K010	\$11.95
4.5V, KA193 for PX4, PX4B, PXR4	M-K020	11.95
KA-210 for D1200, D1200CD, D1200MKII, 42 watts	M-K030	64.95
12V, 400-800mA for KP-1, X5D, X5DR, SP100, KA0SSPAD, 05R/W	M-K040	18.95
9V, 500mA-1.2A, center+ for MS2000, microKONTROL, microKORG, Etribes, DT7, AX1G/B, AX100G, AX1500, GT12, OT12, PX3/3B	M-K050	13.95
9V, 3000mA, KA-163 for EMX-1, ESX-1, TRITON LE, Karma, KM-2, SP-500, D12, N1, N5, N5EX	M-K060	19.95
9V, AC, 4.2A, KA-173, four pin connection for Triton Rack	M-K070	33.95

**We can special order Korg® parts.**  
**Call Korg at 800-872-5674 for the part number,**  
**then call us to place your special order.**

**For Marshall™/Korg® potentiometers, see page 43.**

**For integrated circuits, see page 42.**



# KORG®

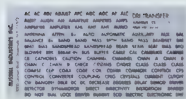


# KORG PARTS





Note: Not to scale



## RADIO DECALS

### Atwater Kent, Stewart-Warner

S-M906 \$3.95

The AK name comes in both solid gold and solid black colors, and the Stewart-Warner name is black with gold outline. Also contains the words 'OFF-ON,' 'VOLUME,' 'TONE,' 'BAND,' 'AM,' 'FM,' 'BC,' 'POL,' and 'AV.'

### Emerson Treble-Clef Logo

S-M905 \$4.50

Gold with black outline in two common sizes. Also contains the words 'OFF-ON,' 'VOLUME,' 'TONE,' 'BAND,' 'AM,' 'FM,' 'BC,' 'SW,' 'POL' and 'AV.'

### Philco

S-M907 \$5.95

Features the Philco name in 3 sizes, and 20 different knob function labels as found on Philco receivers of the 1930's and 1940's. All in gold with black outline. "OFF-ON," "BASS," "B'DC-ST," "POL," "S.W.," "TONE," "BAND SELECTOR," "TRANSITONE," "HIGH FIDELITY," "MAGNETIC TUNING," "VOLUME," "TREBLE," "SELECTIVITY," and "PHONO-RADIO."

### General Electric, Fada & Garod

S-M909 \$4.95

The "General Electric" logo appears in 3 commonly used sizes, along with "Fada Radio," and "Garod." Gold with black outline.

### Emerson, DeWald, Belmont, Sonora & Tom Thumb

S-M910 \$4.50

Gold with black outline. "Emerson" script logo (without treble clef sign) and other manufacturer's logos for popular plastic radios.

### RCA, Stromberg-Carlson & Admiral

S-M908 \$5.75

Gold with black outline. "RCA Victor" appears in three different logo styles, along with "Stromberg-Carlson" and "Admiral."

### Zenith

S-M904 \$4.25

Gold with black outline in two common sizes. Also contains the words 'AUTOMATIC,' 'MEDIUM WAVE,' 'STD. BROADCAST,' and 'SHORTWAVE.'

### Decal Deal!

S-MDECAL-SD \$28.75

We have another deal for you. Buy one of each type of decal and receive over 15% off if you purchased each one individually.

## Instructions for Applying Water Release Decals

Cut the portion of the decal sheet to be used and soak in warm water until the decal slides off the paper backing. Immediately apply wet decal to the radio cabinet and pat dry. Lacquer finish may be applied over the decal(s) if desired. Do not soak too long, and watch carefully!

## DRI-TRANSFER LETTERING

Rub-on lettering simplifies panel labeling, dial marking etc.

### Dial Marking Kit

Contains dial patterns, arcs, lines, dots, switch symbols, graduation lines, lines for rotary tap switches and calibrated meter dials. 3 sheets.

Black	S-M175	\$4.95
White	S-M176	4.95

### Audio, TV and Hi-Fi

Contains over 400 words from 'AC' to 'Zero' in alphabetical order as well as miscellaneous numbers and letters. 1/8" tall lettering. 4 sheets.

Black	S-M177	\$4.95
White	S-M178	4.95

### Amateur Radio and CB

Contains over 300 words from 'AC' to 'X-TAL' in alphabetical order as well as miscellaneous numbers, letters and frequency designations. 1/8" tall lettering. 4 sheets.

Black	S-M179	\$4.95
White	S-M180	4.95





## SOLID STATE VIBRATOR REPLACEMENTS

New manufacture solid-state replacements for 6 volt and 12 volt 3 and 4 pin vibrators.

1-1/2" diameter x 2-3/4" high aluminum can. New and Improved! Now lighter (no longer potted) and more efficient. Replace your buffer capacitor when you replace your vibrator!

6V, 4 pin, negative ground	P-V1015N	\$29.95
6V, 4 pin, positive ground	P-V1015P	29.95
Non standard 6V, 4 pin, positive ground, fits all '40-'42 Cadillac except limo # 7232502	P-V1118P	34.95
12V, 4 pin, negative ground	P-V2015N	29.95
12V, 4 pin, positive ground	P-V2015P	29.95
12V, 3 pin, negative ground	P-V2215N	29.95

## DIAL DRIVE CABLE

No-stretch black cord made of nylon braid over a fiberglass core. Sold by the foot.

Standard Thin .028" dia. S-M75 \$1.00/ft

Use with tension springs (listed below)

## TENSION SPRINGS

Use for dial drive or turntable. Package of 10 S-H400 \$1.00

## NOS DIAL BELTS

Limited Selection. Call with radio model number. S-MDIAL-BELT \$9.95

## STATION CALL LETTER TABS

Reproduction paper station inserts like used on Philco and other late '30's and '40's vintage radios with push-button tuning. Over 300 stations provided with 3/16" high letters in translucent ivory color on black background. Trim to size to fit various models.

P-D130 \$4.95

## DIAL REPRODUCTION MATERIAL

Translucent tan color plastic sheet, can be cut with scissors. Ideal for making replacement Philco or other dials. 8" x 10" sheet, .016" thick.

S-M190 \$8.95

## ZENITH DIAL GLASS

A reproduction of the round convex glass that covered the tuning dial on middle and late '30's Zeniths. 0.5 lb, 8-1/2" diameter. Needs 2'3" of P-D280 rubber extrusion.

P-D272 \$9.95

Note: This photograph was taken at an angle to the glass.

It is, in reality, round and convex.

## DIAL GLASS RUBBER EXTRUSION

High quality neoprene rubber extrusion available in three sizes. Sold by the foot.

5/32" w x 3/16" h .090" internal gap	P-D280	\$3.75
7/32" w x 3/16" h .080" internal gap	P-D281	4.95
1/8" w x 1/8" h .050" internal gap	P-D282	3.95
7/32" w x 1/8" h .100" internal gap	P-D283	3.50

## PLASTIC RADIO COVERS

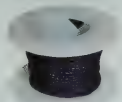
Clear plastic covers to protect your radios from dust while being in storage. Note: Radio not included.

20" x 15", for portable Transoceanic	S-B904	\$3.95
40" x 40", for tabletop radios	S-B905	4.95
48" x 60", for console radios	S-B906	6.95

## EVEREADY BATTERIES

These batteries are useful for powering portable radios like the Zenith Transoceanic, subminiature tube radios, and early transistor radios. The S-Z415 is used in our K-436 Regenerative Radio Kit.

Number	Volts	Size		
412	22.5	1.05" x 0.63" x 1.80"	S-Z412	\$6.95
415	45	1.a05" x 0.63" x 3.69"	S-Z415	13.95
455	45	2.66" x 1.00" x 3.69"	S-Z455	19.95
416	67.5	1.25" x 0.94" x 3.38"	S-Z416	19.95
467	67.5	2.81" x 1.38" x 3.71"	S-Z467	29.95



WSMK

WSM

WSNJ

WSMB



# RADIO PARTS

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**ALUMINUM CHASSIS BOXES**

Note: Dimensions shown are exterior measurements

	Thickness	Size	Price	Cover	Price
P-H1444-8	.04"	6" x 4" x 2"	\$7.45	P-H1434-8	\$3.95
P-H1444-12	.04"	7" x 5" x 2"	7.95	P-H1434-12	3.75
P-H1444-16	.04"	10" x 6" x 2"	10.50	P-H1434-16	5.75
P-H1444-18	.04"	13.5" x 5" x 2"	11.25	P-H1434-18	5.95
P-H1444-22	.051"	12" x 8" x 2"	18.25	P-H1434-22	7.95
P-H1444-29	.051"	12" x 10" x 2"	17.95	P-H1434-29	7.95
P-H1444-32	.051"	17" x 10" x 3"	24.95	P-H1434-30	8.45

**20 GAUGE STEEL CHASSIS BOXES**

Note: Dimensions shown are exterior measurements

	Size	Price	Cover	Price
P-H1441-8	6" x 4" x 2"	\$7.95	P-H1431-8	\$3.95
P-H1441-12	7" x 5" x 2"	8.95	P-H1431-12	3.95
P-H1441-16	10" x 6" x 2"	11.45	P-H1431-16	5.95
P-H1441-18	13.5" x 5" x 2"	12.25	P-H1431-18	6.45
P-H1441-20	17" x 4" x 3"	19.75	P-H1431-20	6.95
P-H1441-22	12" x 8" x 2"	19.75	P-H1431-22	8.55
P-H1441-26	16" x 8" x 2"	19.95	P-H1431-26	8.65
P-H1441-29	12" x 10" x 2"	19.95	P-H1431-29	8.65
P-H1441-32	17" x 10" x 3"	26.95	P-H1431-30	9.10

**BLACK POWDER COATED 20 GAUGE STEEL CHASSIS BOXES**

Note: Dimensions shown are exterior measurements

	Size	Price	Cover	Price
P-H1441-8BK3	6" x 4" x 2"	\$7.95	P-H1431-8BK3	\$3.95
P-H1441-12BK3	7" x 5" x 2"	8.95	P-H1431-12BK3	3.95
P-H1441-16BK3	10" x 6" x 2"	11.45	P-H1431-16BK3	5.95
P-H1441-18BK3	13.5" x 5" x 2"	12.25	P-H1431-18BK3	6.45
P-H1441-22BK3	12" x 8" x 2"	19.75	P-H1431-22BK3	8.55
P-H1441-29BK3	12" x 10" x 2"	19.95	P-H1431-29BK3	8.65
P-H1441-32BK3	17" x 10" x 3"	26.95	P-H1431-30BK3	9.10

**STEEL CAGES - 20 GAUGE**

Note: Dimensions shown are exterior measurements

	Size	Price
P-H1451-16	10" x 6" x 5.2"	\$27.95
P-H1451-22	12" x 8" x 5.2"	31.95
P-H1451-26	16" x 8" x 2"	31.50
P-H1451-30	17" x 10" x 5.2"	38.95

**HAMMOND****70**Antique Electronic Supply • 480.820.5411 • [www.tubesandmore.com](http://www.tubesandmore.com)



## 1590 SERIES DIECAST ALUMINUM ENCLOSURES

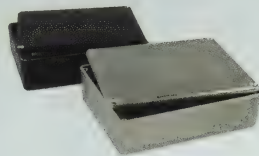
Countersunk lid with machine screws into drilled and tapped holes. Lap joint construction provides protection from dust and water. Vibra finished, no sharp edges.  
NOTE: Add .016" to enclosure depth to compensate for the extra height of the lid.

	Size	Price
P-H1590A	6.34" x 1.52" x 1.06"D	\$6.95
P-H1590B	4.39" x 2.34" x 1.06"D	7.95
P-H1590BB	4.67" x 3.68" x 1.18"D	9.95
P-H1590BBBK	4.67" x 3.68" x 1.18"D Black Powder Coated	12.95
P-H1590C	4.72" x 3.70" x 2.07"D	11.25
P-H1590D	7.38" x 4.70" x 2.05"D	16.95
P-H1590E	7.38" x 4.70" x 3.07"D	19.95
P-H1590F	7.38" x 7.38" x 2.48"D	26.95
P-H1590G	3.94" x 1.97" x 0.83"D	7.45
P-H1590LB	1.99" x 1.99" x 1.06"D	7.95
P-H1590V	4.70" x 4.70" x 3.54"D	7.95



**HAMMOND  
MANUFACTURING™**

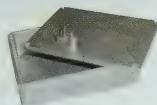
- Spot welded heavy duty construction chassis
- Steel Boxes are Painted ASA 61 Grey Baked Enamel Finish
- Aluminum boxes are natural finish
- Covers are punched with 4 holes - 3/16" dia.



## DIECAST ALUMINUM ENCLOSURE

Same as Hammond 1590BB but generic manufacture from Taiwan

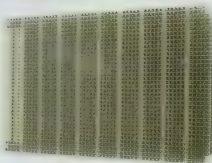
P-H1590BBCE	4.7" x 3.7" x 1.18"D	\$8.95
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## PRINTED CIRCUIT BOARDS

General purpose boards used by electronic technicians, engineers and hobbyists to hand-build electronic circuit prototypes. Pre-cut 6-hole solder strip pattern and drilled holes on 0.1" centers.

	Size	Price
P-PCB-PROTO	6.3" x 3.9," 100mm x 160mm	\$11.95
P-PCB-159B	Fits Hammond 1590B enclosure.	6.95
P-PCB-159BB	Fits Hammond 1590BB enclosure.	7.95



## LOCKING TERMINAL LUGS

#6 5/8" length, angled, package of 10	S-H112	\$1.00
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## TERMINAL STRIPS

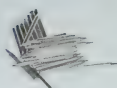
Standard size terminal strips, 1/16" thick bakelite, tin plated steel solder lugs and brackets on 3/8" centers. Sold in bags of 5.

Solder Lug Style	Part	Price	Solder Lug Style	Part	Price
1 lug 0 ground	P-0100H	\$1.75	5 lug 0 ground	P-0500H	\$2.75
2 lug 1 ground	P-0201H	1.75	5 lug 1 ground	P-0501H	2.75
2 lug 1 ground, first lug common	P-0201H01	1.75	5 lug 1 ground, first lug common	P-0501H01	2.75
3 lug 0 ground vertical mount	P-0300V	3.25	5 lug 1 ground, fifth lug common	P-0501H05	2.75
3 lug 1 ground	P-0301H	1.95	6 lug 0 ground	P-0600H	3.15
3 lug 1 ground, first lug common	P-0301H01	1.95	6 lug 1 ground, second lug common	P-0601H02	3.15
3 lug 1 ground, third lug common	P-0301H03	1.95	6 lug 2 ground	P-0602H	3.15
4 lug 1 ground	P-0401H	2.25	7 lug 2 ground	P-0702H	2.75
4 lug 1 ground, first lug common	P-0401H01	2.25	8 lug 2 ground	P-0802H	3.75
4 lug 1 ground, third lug common	P-0401H03	2.25			

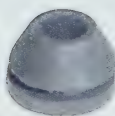
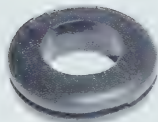
# PCB/TERMINAL STRIPS

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See page 52 for rubber feet



## VIBRAPODS

Enhance your listening sessions! These affordable vibration isolators improve bass definition and depth, dynamics, imaging, detail resolution, clarity and sound stage. Four different models support from 2 to 28 pounds each. All are 2-1/2" diameter x 9/16" high. Temperature range from 50°F to 100°F.

**Model 1:** has a weight range of 2 - 3 lbs each, recommended weight is 2-1/2 lbs.

Suggested uses: CD, DVD, Laserdisc players & transports, DSS receivers, DAC's, preamps, amplifiers and speakers.

S-VIBRA1 \$5.50

**Model 2:** has a weight range of 4 - 8 lbs each, recommended weight is 6 lbs.

Suggested uses: CD, DVD, Laserdisc players & transports, DSS receivers, DAC's, preamps, amplifiers and speakers.

S-VIBRA2 5.50

**Model 3:** has a weight range of 8 - 12 lbs each, recommended weight is 10 lbs.

Suggested uses: Heavy amps or speakers.

S-VIBRA3 5.50

**Model 4:** has a weight range of 14 - 18 lbs each, recommended weight is 16 lbs.

Suggested uses: Heavy amps or speakers.

S-VIBRA4 5.50

**Model 5:** has a weight range of 22 - 28 lbs each, recommended weight is 25 lbs.

Suggested uses: Extremely heavy amps or speakers.

S-VIBRA5 5.50

**Vibracone:** double truncated vinyl cone, 7/16" chome stationary ball (it doesn't roll), 1.1" tall, 1-5/8" diameter, 25 lbs. maximum weight each. Designed to work with Vibrapod® Isolators or by themselves.

S-VIBRACONE 7.95

## CONVENTIONAL PHONOGRAPH NEEDLES

For all set screw and thumb screw cartridges. Straight steel needles, good for 12 plays each.

Package of 25. S-P119 \$3.50

## PHONO CARTRIDGE CONNECTOR ASSORTMENT

25 pieces S-P002 \$0.45



## RUBBER CHASSIS MOUNT WASHERS

Gum rubber chassis mounting washers as used on 30's vintage Zenith and Philco radios. Allows proper dial centering in cabinet opening. P-H182 and P-H185 have adhesive backing for laminating to other washers to increase the thickness. 1/4" inner diameter. Sold individually.

1-3/4" diameter x 1/8" thick

P-H182 \$0.95

1-1/2" diameter x 1/4" thick

P-H183 .95

7/8" diameter x 1/8" thick

P-H185 1.05

7/8" diameter x 3/4" thick

P-H186 1.10

1 1/8" diameter x 3/8" thick

P-H187 1.25

## RUBBER BUMPERS

**Self Adhesive Backed Bump-Ons:**

Dimensions: 5/32" high x 7/16" diameter. 20 bumps per order

P-H16-150 3.60

Dimensions: 5/16" high x 5/8" diameter. Package of 4

P-H1314 0.80

**Button Bumpers:**

Dimensions: 7/16" diameter x 7/16" high. Package of 4

P-H1309 1.20

## RUBBER GROMMETS

Protect electrical wires and cables from sharp edges in holes drilled through chassis boxes. Package of 5.

Chassis Hole Diameter	Grommet Hole Diameter	Groove Width	Part	Price
1/4"	5/32"	1/16"	P-G014	\$0.85
3/8"	1/4"	1/16"	P-G038	1.25
5/16"	3/16"	1/16"	P-G516	1.25
5/16"	3/16"	7/64"	P-G516A	1.25
7/16"	1/4"	1/16"	P-G716	1.25
7/16"	5/16"	1/16"	P-G717	1.95
1/2"	3/8"	1/16"	P-G005	1.95

## MOTOR MOUNTING GROMMETS

Rubber grommets for mounting phonograph motors. Measure 1/2" diameter, 5/16" high and 1/4" inner diameter. Package of 9.

P-R407 \$4.50

# RUBBER/PHONO



## OLD STYLE SPAGHETTI

White fiberglass sleeving is varnished and closely resembles early style spaghetti. Available in two sizes. 10 foot minimum per size.

20 AWG	S-M436W	\$0.50
11 AWG	S-M401W	.60

## HEAT SHRINKABLE PVC TUBING

Shrinks to half its original size when heated by heat gun, soldering iron or just a match. Use for insulating terminals, connectors and wire splices. Comes in 6" lengths and quantity shown.

Orig. dia.	Qty/Bag	Part	Price
.187"	27	S-M12-1046	\$4.50
.250"	23	S-M12-1048	4.50
Assorted	23	S-M12-1080	4.50

## HEAT SHRINK TUBING ASSORTMENT

Assortment of 2" heat shrink in many colors and sizes. Shrinks to 50% of its original size.

S-M14 \$1.25

## SLEEVING

1" "expando mesh." Sold by the foot. S-M100 \$0.95

## FISH PAPER

Gray insulating paper .010" thick, used in switches, under terminals, in transformers etc. where mechanical strength is required. Dielectric strength 3,000 volts. 9" wide roll contains 250 sq. inches. S-M560 \$4.95

## INSULATING CAMBRIC

Yellow varnished cambric .010" thick, used in switches, under terminals, in transformers, field coils, chokes etc. Dielectric strength 5,000V 9" wide roll contains 210 sq. inches. S-M549 \$5.60

## INSULATORS While Supplies Last!

Old style insulator for antenna installations, molded plastic	S-H2130	\$1.50
Porcelain cylindrical insulator, 3/8" x 1 1/2" long, 6-32 threads on both ends	S-H133	.95
Antenna nail on knob. Glazed, insulated. Use to attach antenna to exterior of buildings, trees etc.	S-H134	1.50 ✓

## LOOP ANTENNA FORM KITS

These kits are made for vintage radios requiring long antennas to operate. Includes beams and wire spacing combs that snap together for easy to wind antenna. Also includes 28 gauge magnet wire.

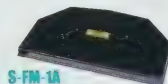
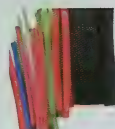
6 sided. 330 $\mu$ H. Effective aperture 153 in <sup>2</sup> . Perimeter: 46". 24 turns max, 100'	K-ANT6	\$8.75
8 sided. 490 $\mu$ H. Effective aperture 280 in <sup>2</sup> . Perimeter: 61". 24 turns max, 130'	K-ANT8	9.95
10 sided with wiperless 3-plate, 10-180pF capacitor. 650 $\mu$ H. Effective aperture 447 in <sup>2</sup> . Perimeter: 76". 24 turns max, 160'	K-ANT10	26.95

## PLATFORM ANTENNAS

Made for vintage radios requiring long antennas to operate.

Ultra flat log inline YAGI antenna for all AM radios and high-end FM stereo applications. 6' coax cable and 75 ohm adapter included. 17" x 9.5" x 1" height. Supports most tombstone and cathedral style radios. S-FM-1A \$44.95

Compact low profile AM loop antenna. May be placed inside or on top of most floor standing radios or in back of or on top of table top radios. Works well with vintage and modern stereo receivers AM section. Antenna receives standard local AM and international short wave. Indestructible ABS cabinet measures 13" X 4" and is only 1" in height. S-AM-10 29.95



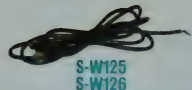
# INSULATORS/ANTENNAS

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INSULATORS

S-W123  
S-W124

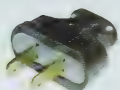
S-W104



P-SP2-106



P-SP2-500



## REPLACEMENT POWER CORDS

	AWG	Cond	Length	Part	Price
Black, SJT, molded plug	14	3	6.5'	S-W122	\$2.75
Black, 13A, molded three prong plug	16	3	8'	S-W125	2.95
Black, 13A, molded three prong plug	16	3	12'	S-W126	4.50
Black, detachable	18	3	5.5'	S-W127	1.95
Black, detachable, mates with P-SP2-106.					
Marshall™ replacement	18	3	8'	S-W123	2.95
Black, detachable, mates with P-SP2-106.					
Marshall™ replacement	18	3	12'	S-W124	4.95
Brown, SPT-1, polarized	18	2	6'	S-W104	1.50
Brown, SPT-1, non-polarized, detachable	18	2	6'	S-W105	1.25
Black, SPT-1, non-polarized, tinned leads	18	2	6'	S-W118	1.95
Black, SPT-2, polarized, no plug	18	2	6'	S-W453	1.25
Black, non-polarized, Panasonic-type end	20	2	6'	S-W117	1.25

S-W453



S-W117

## I.E.C. POWER CORD RECEPTACLES

Mates with power cords S-W123 & S-W124.	
Rated for 15A, 250V. UL listed	P-SP2-106 1.50
With fuse holder. Mates with power cords S-W123 & S-W124.	
Rated for 15A, 250V. UL listed	P-SP2-500 1.95

## E-CORDS

Extension cords designed for use in the entertainment industry. Power Block® 3 outlet connector. All black. Very flexible and durable. Made by Electricord™.

14 AWG, 3-outlet. 6 foot ProCo E-cord	S-W206	\$9.95
14 AWG, 3-outlet. 12 foot ProCo E-cord	S-W212	10.95

## BRAIDED COVERED POWER CORD

Brown 2 conductor 18 gauge, stranded power cord, similar to woven cloth covered cords in early AC radios.

20 feet	S-W102-20	\$7.95
50 feet	S-W102-50	17.95
250 foot spool	S-W102-250	79.95
Gold sold by the foot	S-W102G	.75
Large dimension similar to above but with larger overall physical dimension to more accurately represent type of wire used on early AC radios. Sold by the foot.	S-W103	2.95/ft

## AC CORD PLUG

P-SP2-104 2.50

UL rated. Flat, brown phenolic plug, 1 1/4" wide x 1 3/16" deep.

## STRAIN RELIEF

Rubber type for standard zip cord.

For 1/4" diameter hole	P-H11-402	\$0.35
Two conductor (SP1)	P-H11-406	.30
16/3 SJT, 5/16" cord diameter. Used in Fender®	P-H1200	.35
Snap bushing, 7/16" ID, 9/16" chassis hole, 0.4" height. Package of 5.	W-10540	1.00

## SPEAKER WIRE SOLD BY THE FOOT

High definition oxygen-free copper wire. 112 strand, 16 gauge speaker wire. Low loss, 2 conductor with Superflex®. Extra soft PVC insulation.

Sold by the foot.	S-WS16	\$0.50/ft
16 AWG Speaker Cable. Make your own cable! Excellines 16 AWG two conductor. Non-shielded. Sold by the foot. See page 49 for compatible plugs.	P-HSG-FT	.48/ft

## OLD STYLE SPEAKER WIRE

Brown cloth-covered two-conductor tinsel wire, as found on 20's vintage horn and cone-type speakers. Sold by the foot, terminals not included.

P-W413 1.35/ft

Note: Wire cut to order is non-returnable!



POWER CORDS



## STRANDED WIRE

**Lacquered finish is available again!!!** #20 stranded copper wire with modern insulation and lacquered cotton braid finish. Provides safety and authentic vintage look. Available in 8 colors, on 25' and 50' spools.

Color	Part	25' spool	Color	Part	50' spool
Orange	S-W703L-25	\$4.95	Orange	S-W703L-50	\$7.95
Black	S-W704L-25	4.95	Black	S-W704L-50	7.95
Red	S-W705L-25	4.95	Red	S-W705L-50	7.95
Blue	S-W706L-25	4.95	Blue	S-W706L-50	7.95
Green	S-W707L-25	4.95	Green	S-W707L-50	7.95
Yellow	S-W708L-25	4.95	Yellow	S-W708L-50	7.95
White	S-W709L-25	4.95	White	S-W709L-50	7.95
Brown	S-W710L-25	4.95	Brown	S-W710L-50	7.95



## COTTON COVERED MULTI-CONDUCTOR CABLE

8 conductor 20 gauge stranded wire with brown cotton braid over all. Replaces 1920's Atwater Kent battery cable etc. Sold by the foot.

S-W711 \$2.95



## SOLID CORE WIRE

**Lacquered finish is available again!!!** #20 solid core copper wire with modern insulation and lacquered cotton braid finish. Provides safety and authentic vintage look. Available in 8 colors, on 25' and 50' spools.

Color	Part	25' spool	Color	Part	50' spool
Orange	S-W803L-25	\$4.95	Orange	S-W803L-50	\$7.95
Black	S-W804L-25	4.95	Black	S-W804L-50	7.95
Red	S-W805L-25	4.95	Red	S-W805L-50	7.95
Blue	S-W806L-25	4.95	Blue	S-W806L-50	7.95
Green	S-W807L-25	4.95	Green	S-W807L-50	7.95
Yellow	S-W808L-25	4.95	Yellow	S-W808L-50	7.95
White	S-W809L-25	4.95	White	S-W809L-50	7.95
Brown	S-W810L-25	4.95	Brown	S-W810L-50	7.95



Note: Cut to order wire is non-returnable!

## "PUSH-BACK" CLOTH COVERED WIRE

Solid Core push-back hook-up wire. 22 AWG. 20 foot minimum. Sold by the foot.



Black	S-W712	\$0.25
Red	S-W712R	.25
White	S-W712W	.25

## 600 VOLT STRANDED TINKED HOOK-UP WIRE

Copper wire. UL style 1015. rated to 105°C. Perfect for new projects or rewiring of any electrical equipment. 22 gauge on 50 foot spools.



Black	S-W22B	\$3.45
White	S-W22W	3.45
Green	S-W22G	3.45
Red	S-W22R	3.45
Yellow	S-W22Y	3.45
Orange	S-W22O	3.45

## BUS WIRE

#22 solid tinned copper bus wire. Approximately 100' per spool. S-W428 \$4.25



## EARLY STYLE SQUARE BUS WIRE

#12 AWG Square tinned copper, per 10 feet. S-W140 \$2.95



## MAGNET WIRE

Insulated with two coats of enamel.

Perfect for winding coils and transformers.

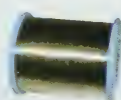
21 gauge, 100 ft. spool	S-WL3-610	\$4.50
22 gauge, 100 ft. spool	S-WL3-611	4.50
24 gauge, 200 ft. spool	S-WL3-612	4.50
28 gauge, 200 ft. spool	S-WL3-614	4.50
32 gauge, 400 ft. spool	S-WL3-616	4.50
36 gauge, 750 ft. spool	S-W318	4.95
40 gauge, 750 ft. spool	S-W320	4.95
42 gauge, 750 ft. spool	S-W319	4.95



## NICHROME RESISTANCE WIRE

Use for making wirewound resistors, small heater elements, or repairing filament potentiometers. Available in four sizes. 20 foot minimum.

Ohms/ft.	Gauge	Part	Price/ft.
2.57	26	S-W500	\$0.20
4.09	28	S-W501	.20
6.50	30	S-W502	.20
20.80	35	S-W503	.20



## CELANESE COVERED WIRE

White celanese covered. Resembles early cotton covered wire. May be color dyed. Litz wire ideal for loop antennas. Cotton wrap. 20 foot minimum per type.

#24 magnet wire	S-W203	\$0.10/ft
#26 magnet wire	S-W107	.10/ft
54/38 Strand-Litz Wire	S-W106	.15/ft



## STRANDED AERIAL WIRE

Stranded 16 gauge copper wire, not insulated. For outside antennas. 50 foot roll. S-W32-146 \$6.95





## DEOXIT

DeoxIT Power Booster Spray, 5% solution, 200 ml. Contact cleaner, conductivity enhancer & lubricant. Dissolves oxidation & corrosion; reseals surfaces on metal contacts. Improves connector performance/reliability. **S-CD5S-6\* \$10.70**  
 Pump Spray: 50% concentrate solution. Non-flammable.  
 150ml. May be shipped by air and to Canada! **S-CDP5S-6 \$14.25**  
 Precision Pen, 100% solution, 7.4 ml. **S-CD100P \$14.25**  
 \* Cannot be shipped by air or to Canada

## CAILUBE MCL

CaiLube MCL Precision Spray, 5% solution, 200 ml. Superior cleaning & lubrication for conductive plastics & carbon-based controls (faders, switches, potentiometers, & other sliding surfaces). Use DeoxIT Power Booster on metal surfaces.

**S-CMCL \$11.60**

## PROGOLD

ProGold Spray, 5% solution, 200 ml. Contact cleaner, conditioner, lubricant & protectant for PLATED metal surfaces. Promotes optimal signal quality, prevents fretting corrosion & wear. Improves connector performance/reliability.

**S-CG5S-6 \$16.95**

ProGold Precision Pen, 100% solution, 7.4 ml. Contact cleaner, conditioner, lubricant & protectant for PLATED metal surfaces. Promotes optimal signal quality, prevents fretting corrosion & wear. Improves connector performance/reliability.

**S-CG100P \$17.70**

## PRESERVIT

PreservIT Spray, 5% solution, 200 ml. Oxidation deterrent, contact lubricant & protectant for pre-cleaned or newly manufactured metal/electrical connections. Excellent for harsh environments. Improves connector performance/reliability.

**S-CP5S-6 \$11.60**

## CAIKLEEN RBR

Rubber Cleaner & Rejuvenator Liquid, Dropper Bottle, 59 ml. For rollers/ platens. Ideal for computers, fax machines, printers, copiers, & other office equipment. Outstanding for auto detailing service centers. Low odor formula.

**S-CRBR100L-2 \$8.90**

## CIRCUITWRITER

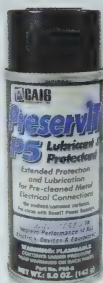
CircuitWriter Conductive Ink Pen, silver based solution, 7 ml. Make instant traces on epoxy, glass, plastic, metal; repair defective traces/circuit boards/ rear-window heater traces; make jumpers/prototype circuits; shield electronics.

**S-CCW100P \$12.50**

## CLEANING BRUSHES

Nylon brush for cleaning contacts and connectors. Ideal for phone and phono (RCA), XLR, coax connectors and patchbays. Package of 6.

**S-CAB-6 \$4.40**



**All CAIG products are priced more than 10% below Retail!**



**CAIG**



## BIG BATH *Now Formula!*

All purpose degreaser and cleaner for electrical contacts, switches, pc boards and components. Evaporates instantly and leaves no residue.

16 oz S-C19-906 \$18.95

## SILICONE HEAT SINK COMPOUND

Type 29, 1 fluid oz S-C10-8109 \$5.95

## PHONOLUBE

Light bodied grease made of polymerized oil specially developed for the lubrication of small geared mechanisms. Retains its viscosity over a wide range of temperatures. 2 oz tube.

S-C10-1223 \$4.75

## SERVICE CEMENT

A quick drying waterproof clear adhesive which forms a strong vibration resistant bond. Ideal for speaker repairs and bonding semi-porous materials to each other or to metals, plastics, etc. 2 oz bottle.

S-C10-302 \$5.75

## DE-OX-ID

Solventless light oil based contact treatment compound counteracts oxidation.

4 oz. S-C19-1906 \$6.95

## RUBBER RENUE

Removes "dead" rubber from old rubber surfaces to clean and revitalize idler wheels, belts and pinch rollers. 3.5 oz bottle.

S-C220 \$5.95

## BELT & DRIVE NON-SLIP

Prevents slippage and restores proper function on belts and drive wheels in turntables and tape recorders, especially where the rubber has hardened or become slick. 2 fl. oz.

S-C10-8602 \$5.75

## ANTI-STATIC AIRJET

Clean hard to reach places. Anti-static formula minimizes static buildup. Blows away dust, dirt and grit without scratching. Contains no ozone depleting chemicals. Non-flammable. 12 oz can.

S-C19-8475SF \$8.95

## WHITE LITHIUM GREASE

White lithium based grease lubricant. Good for use on wiping contacts and sliding parts. Will not oxidize or harden. 1 3/4 oz tube.

S-C10-2302 \$3.95

## Q DOPE

Fast drying coating for coils and transformers. Clear, protective coating has minimal effect on inductive values. 2 oz.

S-C10-3702 \$9.75

## CORONA DOPE

Fast drying black lacquer coating. High quality dielectric, arc and corona resisting properties. 2 oz.

S-C10-4702 \$7.75

## LIQUID TAPE INSULATING COATING

Heavy black coating used as insulating tape in applications where tape cannot be used. 2 oz.

S-C10-1762 \$7.15

## RADIO-TV SERVICE SOLVENT

Quick acting solvent for use in speaker repair.

Can be used as lacquer thinner. 2 oz. S-C10-312 \$5.75

## DO-IT-YOURSELF ELECTROPLATING

Replate nickel, silver or brass radio and phonograph parts. Uses current from any 3 to 6 volt DC supply or batteries. Plating brush connects to positive voltage and part being plated connects to negative. Brush sold separately. 2 oz. jar.

Brass S-F222 \$7.95

Copper S-F296 7.95

Nickel S-F223 12.95

Silver S-F224 24.95

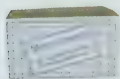
Plating Brush (instructions included) S-F225 6.25



CHEMICALS

CHEMICALS





## PLASTIC POLISH

**Novus #1** - Cleans and glazes plastic surface to resist finger markings, dust buildup and is anti-static.

2 ounces	S-C216	\$1.95
8 ounces	S-C226	3.95

**Novus #2** - Removes fine scratches, abrasions and haziness from plastic surfaces. Great for plastic radio dial windows. For best results, follow with Novus #1 polish.

2 ounces	S-C217	2.50
8 ounces	S-C227	4.95

**Novus #3** - Removes scratches from acrylic surfaces. More abrasive than #2. Effective for deeper scratches. Treatment must be followed by #2 to buff and polish the surface. For best results, follow with Novus #1 polish.

2 ounces	S-C215	2.95
8 ounces	S-C225	5.95

Buy each type of the same size bottles and save!

2 oz bottles	S-CPOLISH-20Z	6.50
8 oz bottles	S-CPOLISH-SD	12.95

## NOVUS POLISH MATES

S-CMATE \$2.25

Novus Plastic Polish Mates offer cloth-like softness in a disposable wiper. These wipers are highly absorbent, abrasion-resistant, low-lint and extra durable. Package of 6 Mates.

## MAGNOLIA GLAYZIT

S-C250 \$12.95

For restoration of Bakelite. A siliconized polish that restores Bakelite with its blend of premium wax and oil.

## TIBET ALMOND STICK

S-C243 \$3.95

Wipes out scratches in wood radio cabinets quick-as-a-wink. Simply rub end of stick over scratches in any type of wood and watch them disappear like magic!

## LACQUER STICK WIPE ON PAINTSTICK

Quick economical way to color engraved lines or stampings on metal, glass, plastics, etc. Works great for filling in markings on TRF radio dial knobs and faceplates.

White	S-F229	\$2.50
Gold	S-F230	3.95
Red	S-F437	2.50
Black	S-F438	2.50

## "MICRO-MESH" PLASTIC RESTORATION SYSTEM

The most efficient system available for removing scratches and haziness from plastic radio cabinets and clear dial windows. Each kit contains 5 pieces of 3" x 6" Micro-Mesh cushioned abrasive cloth ranging from coarse to ultra-fine, foam sanding block, 3 oz bottle of Micro-Gloss liquid abrasive and a soft buffing cloth. Net weight 8 oz.

S-C228 \$19.95

## PLAS-T-PAIR

A complete repair kit for plastic knobs, radio cabinets and other plastic parts. It can be poured into a crack or molded to fill gouges, holes, or make parts. After setting it can be sanded, drilled or polished.

S-C244 \$9.95

# RESTORATION



## MOHAWK ULTRA-CLASSIC TONER

Ultra-Classic Toners utilize a non-fading, non-bleeding dye to provide excellent clarity. Wood shades can be varied without importing the "muddy" effect sometimes associated with pigment type toners. Get dye-based transparency with the highest rating of light-fastness available for dyes. Excellent flow out, mar and alcohol resistant, no overspray. Net weight 13 oz.

Perfect Brown: A nice warm shade that is a great match for 1930's and 1940's sets	S-F306*	\$7.25
Walnut Brown: Use as a replacement for burnt umber. Great for late 1920's to early 1930's sets	S-F309*	7.25

## MOHAWK ULTRA-FLO CLEARS

Formulated with special resins and solvents to provide a finish film free of orange peel. Little or no overspray when used over spot repairs or over an existing lacquer finish. Saves time, as the finish film will not require sanding or rubbing. Net weight 13 oz.

Gloss	S-F301*	\$7.25
Satin	S-F302*	7.25

## MOHAWK TONE FINISH TONER

Also known as shading of toning lacquer. This is an opaque, pigmented lacquer finish that will build a darker and darker color with subsequent coats. Best for duplicating the shading effect on the edges of cabinets. Should be top coated with clear lacquer after the desired color is achieved.

Net weight 13 oz. Van Dyke Brown.	S-F305*	\$7.25
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## MOHAWK LACQUER SANDING SEALER

Helps fill grain pores on open grain woods and prevent blotchy absorption of penetrating stains on birch or maple cabinets or trim pieces. Seals end grain. Net wt. 13 oz aerosol can.

S-F304*	\$7.25
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## MOHAWK NO BLUSH

Humidity or cold weather can cause a finish to turn white (blush). No Blush™ Plus retarder re-flows the finish and allows the trapped moisture to escape. Net wt. 13 oz aerosol can.

S-F310*	\$7.25
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## CLEAR SPRAY SHELLAC

Provides a clear coating for many different surfaces. Shellac has an unusual adhesion to hard-to-grip surfaces. Hold out is exceptional on wood, plywood and plaster. Recommended for spot sealing knot holes, sap streaks and refilled areas before refinishing. Net weight 12 oz.

S-F308*	\$8.50
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## WRINKLE FINISH

Great for refinishing vintage metal radio cabinets, faceplates and speakers. 12 oz. spray can.\*

Jet Black	S-F227*	\$9.95
Grey	S-F701*	9.95

**Hints for Wrinkle Finish paint:** Surface must be clean and dry. Clean means no oil, grease or fingerprints. Be sure that temperature of the paint can and the surface to be painted is between 70 and 90 degrees. Spray with even strokes at a distance of 8" to 12". Apply a fairly heavy coat. Spray a 2nd coat approximately 3 minutes after the 1st, also fairly heavy. The wrinkling will appear gradually, requiring about 12 hours at room temp to completely develop. Tip: experience seems to indicate that a better finish develops when sprayed onto bare metal. Paint compatible for use with S-F701 to make brown wrinkle finish:

Dark Brown	S-F226P*	\$7.95
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For 20 tips on using Mohawk Lacquer products, please see the Tech Corner on our website.



\*NOTE: Federal regulations prohibit us from shipping these products by air (noted with \* after part number)

See page 52 for stainless steel pan head and flat head Philips self tapping screws for cabinet hardware.

See page 54 for black screws for attaching logos and other light weight items.



<b>PAN HEAD PHILIPS MACHINE SCREWS</b> Zinc, package of five.		
4-40 x 1/4"	S-HS440-14	\$0.30
4-40 x 3/8"	S-HS440-38	.30
4-40 x 1/2"	S-HS440-12	.25
6-32 x 1/4"	S-HS632-14	.35
6-32 x 3/8"	S-HS632-38	.40
6-32 x 1/2"	S-HS632-12	.40
8-32 x 3/8"	S-HS832-38	.35
8-32 x 1/2"	S-HS832-12	.50
8-32 x 3/4"	S-HS832-34	.50
10-32 x 1/2"	S-HS1032-12	.65
10-32 x 3/4"	S-HS1032-34	.75
10-32 x 1"	S-HS1032-1	.75



<b>PAN HEAD SELF TAPPING SCREWS</b> Zinc, package of five.		
#6 x 3/8"	S-HST6-38	\$0.40
#8 x 3/8"	S-HST8-38	.50
#8 x 1/2"	S-HST8-12	.50



## MACHINE SCREWS

Stainless steel with large head. Ideal for transformer mounting. Package of four.		
#10	P-H245	.60



<b>FLAT WASHERS</b> Zinc, type A narrow, package of five.		
#4	S-HW4	\$0.20
#6	S-HW6	.30
#8	S-HW8	.20
#10	S-HW10	.30



<b>INTERNAL TOOTH LOCK WASHERS</b> Zinc, package of five.		
#4	S-HLW4	\$0.40
#6	S-HLW6	.40
#8	S-HLW8	.40
#10	S-HLW10	.45



<b>FINISHED HEX NUTS</b> Zinc, package of five.		
4-40	S-HHN440	\$0.20
6-32	S-HHN632	.30
8-32	S-HHN832	.30
10-32	S-HHN1032	.30



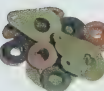
<b>T-NUT</b> Zinc, package of five.		
6-32	S-HTN632	\$1.00
8-32	S-HTN832	1.00
10-32	S-HTN1032	.85



## DECORATIVE HEAD SCREWS

Similar to those used for speaker mounting on 1930's vintage radio cabinets. All are #8-32, 1-1/2" long. Sold in Packages of four.

Nickel Plated <sup>1</sup>	P-H240	\$1.90
Brass Plated <sup>2</sup>	P-H241	1.90
Bronze Plated <sup>3</sup>	P-H242	1.90
Unplated <sup>4</sup>	P-H243	1.90
Nickel Plated <sup>5</sup>	P-H244	1.90



<b>FIBER WASHER ASSORTMENT</b>		
	S-H402	\$0.65



## "C" WASHER ASSORTMENT

Contains 25 of the most popular sizes.	S-H401	\$0.75
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<b>FINNESTOCK CLIP</b> Spring clip 3/4" long for up to 14 gauge wire. #6 mounting hole.		
package of 100	S-H11-4034	\$11.95
package of 6	S-H11-4043-6	.90



# HARDWARE

80

Antique Electronic Supply • 480.820.5411 • [www.tubesandmore.com](http://www.tubesandmore.com)



## PANEL METERS

80mm wide x 64 mm high (~3-1/8" x 2-1/2") white face. Fits in 2 3/8" round panel cut out. 2-1/2% accuracy.

0-100 uA DC	S-PMD100UA	\$9.95
0-1 mA DC	S-PMD1MA	9.95
0-100 mA DC	S-PMD100MA	9.95
0-1 A DC	S-PMD1A	7.95
0-150 V AC	S-PMA150V	9.95



## RF SIGNAL GENERATOR

S-MRFGEN \$159.95

Compact solid state RF signal generator designed for the hobbyist, service bench and technical instruction. The generator is most suited for checking and aligning the IF circuit and tuners in AM, FM, and TVs. 100KHz to 150MHz in 6 bands and up to 450MHz on third harmonics. 5.9" high x 9.8" wide x 5.1" deep. 8 lbs.



### Features:

- Wide frequency range - 100KHz to 150MHz
- With 1 KHz oscillator purpose of modulation
- High stability
- Output control - 0dB/-20dB/-40dB and fine adjuster
- Frequency accuracy -  $\pm 5\%$
- RF output - 100mV rms appx (up to 35MHz unloaded)
- Output control - High-low switch, fine adjust
- Audio output 1KHz min., 2V rms
- Modulation - Internal - 1KHz (AM) 30% appx.
- External - 50Hz ~ 20KHz at < 1V rms input

## AUDIO GENERATOR

S-MAFGEN \$159.95

The oscillation frequency range of this audio generator is between voice frequency band and super voice frequency band. Its main function is to measure the characteristics of an audio circuit. Square and sine wave. 10K ohm input impedance, 10V rms maximum output voltage. 600 ohm output impedance.



Equipped with synchronized input terminals, enabling the high power output signals to be accurately controlled by small signals. Comes with test lead and ground lead. 5.9" high x 9.8" wide x 5.1" deep. 8 lbs.

### Features:

- High frequency stability: within  $\pm 2\text{Hz}$
- Frequency range - 10Hz ~ 1MHz, 5 decade bands
- Accuracy - 10Hz ~ 1MHz  $\pm 5\%$   $\pm 2\text{Hz}$
- Output control - 0dB/-20dB/-40dB and fine adjuster
- 100Hz ~ 100KHz  $\pm 3\%$   $\pm 3\text{Hz}$
- Output Voltage Floating: within  $\pm 1.5\text{dB}$

### Sine Wave Output

- Range - 10Hz ~ 1MHz
- Output voltage- 8V rms max.
- Output distortion- < 0.05% - 500Hz ~ 50KHz < 0.5% - 50Hz 500KHz

### Square Wave Output

- 10Hz ~ 100KHz
- 15V p-p

## SIGNAL TRACER/INJECTOR

S-MSIGTR \$139.95

Handy, easy-to-operate versatile instrument with dual power source (9V battery or AC adapter). Two red LEDs on front panel indicate the mode of operation. Ideal for servicing on TV, AM and audio circuitry, plus checking of speakers, microphones and pick-ups. 100 uA meter, 21/4" speaker 7.8" W x 5.5" H x 3.9" D. 3 lbs.



### Features: Tracer Portion

- Gain - Max. 60dB at 1KHz
- Attenuation: 0-20-40-60 dB
- Input impedance: 100K ohms
- RF output: 100mV rms appx (up to 35MHz unloaded)
- Output impedance: Output - 600 ohms (unbalanced)
- External speaker - 8 ohms

### Features: Injector Portion

- Frequency: appx. 1KHz square wave form
- Output level: 4.5V p-p max., 0 - 4.5 continuously variable 3 lbs

## GENERAL PURPOSE VOM WITH MULTIFUNCTION

S-Z370 \$19.95

Intermagnetic version to prevent interference from magnetic fields. Double protection of diode and fuse, transistor hFE test function. DCV: 0.25V, 0.5V, 2.5V, 10V, 50V, 250V, 1000V. ACV: 10V, 50V, 250V, 500V, 1000V. ACA: 50uA, 2.5mA, 25mA, 250mA, 10A. Ohms: x1, x10, x1k, x10k. Dimensions: 148mm x 98mm x 41mm



## DIGITAL MULTIMETER

S-Z3220 \$49.95

Ergonomically Designed. Uses one 9V battery.

### Features:

- 0.5% basic DC accuracy
- 1.5" x 3" x 7.5" (w/o case)
- frequency to 10 MHz
- hFE and diode test
- 10M ohm input resistance
- polarity indicator
- low battery indicator
- 3-1/2 digit LCD, 0.625" high
- capacitance to 20 mFD
- 10 A (AC or DC)
- audible continuity test
- overload protection
- over range indicator
- tilt stand and case 1.6 lbs



## DIGITAL CAPACITANCE METER

S-Z150 \$59.95

Nine ranges give precision readings from .1pF to 20,000mFD. Can be used to check virtually all capacitors for tolerance value, selecting matched sets, etc.

### Features:

- 0.1 pF to 20,000 mF, 9 ranges
- 3-1/2 digit LCD, 1" h x 2-1/4" w
- Input protected
- Over range indicator
- 1.5" x 2.8" x 6"
- Includes, case, leads, spare fuse and instructions. 1.1 lbs
- 0.5% basic accuracy
- Zero adjustment
- Low battery indicator
- Tilt stand



## ALESSANDRO BIAS AND MATCHING METER

S-TBIASMETER \$135.00

Lets you regain control over your amp's sonic output. It's remarkable, quick and easy to use, and it works with 6L6, 6V6, 5881, EL34, 7581, 7591, 7027, KT66, KT77 and KT88 tubes; or any octal tube with the Plate on pin 3. Install the power tubes into the amp "through" the bias sockets, turn the amp "on", then check and adjust the bias. It's fast, accurate and easy!



## BIAS KING™ & BIAS KING PRO™

A digital readout for real world analog measurements. As tubes age, their bias point will shift. By using the Bias King™, you can maintain the sound you want by periodically adjusting the bias on your amp. This will keep your tubes in top shape throughout their life and will keep your amp sounding its best. Use the chart provided to find out what range of current flow is acceptable for the tube type in your amp. It works on most octal socket tube amps, and requires no power source other than the amp it is plugged in to. It can be used to "match" tubes into pairs. Two models are available:

**Bias King™** Features one tube socket enabling you to check the bias of your tubes one tube at a time.

S-TBKING \$129.95

**Bias King Pro™** Two sockets allow you to switch between two tube readouts without having to unplug tubes.

S-TBKINGPRO 199.95



# TEST EQUIPMENT

Info@tubesandmore.com • FAX: 480.820.4643 or toll free fax: 800.706.6789

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TOOLS

## WELLER MARKSMAN SOLDERING IRON

S-TSP40L

\$17.95

- Input Voltage: 120
- Power Consumption: 40 watts
- Tip Temperature: 900°F
- Heating Element Type: Nichrome Wound, fiberglass and ceramic insulated
- On/Off indicator light
- Includes 1/4" chisel tip (S-TMT10)

## WELLER SOLDERING IRON

S-TWP35

\$44.95

- Input Voltage: 120
- Power Consumption: 35 watts
- Tip Temperature: 850°F
- Heating Element Type: Nichrome wound, fiberglass and ceramic insulated
- Lightweight handle with cushion grip for ease of use and comfort
- Comes with 1/8" screwdriver tip (S-TST3)
- Stand (S-TPH60) sold separately (see below)
- Three wire grounded power cord for your safety

## WELLER VARIABLE POWER SOLDERING STATION

S-TWLC100

\$51.95

- Input Voltage: 120
- Output Voltage: 120
- Power Consumption: 5 - 40 watts
- Temperature Range: 900° F max
- On/Off switch with "power-on" indicator light
- Variable control produces 5 to 40 watts
- Natural sponge tip cleaning pad
- Ideal for hobbyist, DIYers and students
- Includes 1/8" screwdriver tip (S-TST3)

## WELLER CONTROLLED OUTPUT PROFESSIONAL SOLDERING STATION

S-TWTCPT

\$144.95

- Input voltage: 120
- Output voltage: 24
- Power Consumption: 60W
- Unique closed loop method of controlling maximum tip temperature, protects temperature sensitive components
- A ferromagnetic temperature sensor in the tip controls tip temperature, no adjustments are necessary
- Lighted switch
- Tips available in 700°F and 800°F ranges
- Tips Determine Temperature (1/16" Screwdriver 700°F tip S-TPTA7)

## WELLER/UNGAR HEAT GUN, 1000 WATTS

S-T1095

\$55.95

Dual temperature, heat gun is ideal for:

- Applying heat shrink products
- Curing epoxy and softening adhesives
- Softening and molding plastics
- Heating liquids and stripping paint
- Drying, thawing frozen pipes

### Features:

- Dual temperature - 1200°F (1000w) and 790°F (400w)
- 3 way switch: Hi - Off - Low
- 3 wire grounded plug, 6' power cord

## ACCESSORIES FOR S-T1095

Reducer - use for concentrating heat

S-T1080

\$7.25

Reflector - use for heat shrink tubing/caps

S-T1082

7.50

## WELLER BULB SOLDER OFF

S-T7805

\$10.95

Helps remove solder. Old style solder sucker.

## WELLER MANUAL DESOLDERING PUMP

S-T7874B

\$22.95

One hand operation with spring loaded piston provides ESD safe solder removing vacuum, Self cleaning, non clogging, static free replaceable tip

## REPLACEMENT TIPS FOR S-TWTCPT

Tips are solid copper plated with iron all over, and nickel and chromium behind the working surface. Designed to provide maximum heat transfer from the heater to the tip.

1/16" Screwdriver tip, 700°F

S-TPTA7

\$6.50

1/16" Screwdriver tip, 800°F

S-TPTA8

6.50

Conical tip, 700°F

S-TPTP7

6.50

## REPLACEMENT TIPS FOR S-TWLC100 & S-TWP35

Tips are solid copper with iron all over, and nickel and chromium behind the working surface. Designed to provide maximum heat transfer from the heater to the tip.

1/16" Screwdriver tip

S-TST1

\$5.75

1/8" Screwdriver tip

S-TST3

5.75

Conical tip

S-TST7

5.75

## REPLACEMENT TIPS FOR S-T7874B

S-T7875B

\$5.25

## WELLER SOLDERING IRON STAND

S-TPH60

\$23.95

## KESTER 44 SOLDER

60/40 rosin core solder. Melting temperature of 370 °F

Standard .050" diameter.

10 foot length S-TH3-390 \$2.45

1 lb spool S-T9000 12.95

Fine line .031" diameter

15 foot length S-TH3-391 3.25

1 lb spool S-T9001 12.95

## DESOLDERING BRAID

Made of finely-woven copper braid impregnated with pure rosin flux, for high efficiency and maximum solder holding capacity. 5' dispenser spool.

.08" wide

S-T22-405

\$3.95

.125" wide

S-T503

4.95

## HEAT SINK

S-T156

\$1.95

Absorb heat during soldering/desoldering sensitive parts. 2 3/4" long, high carbon steel, hardened and with PVC coated handle.

## SOLDER AID TOOL

S-T9075

\$4.95

Stainless steel, solder will not stick. 6 1/2" long with plastic handle. Forked tip on one end, straight reamer on the other.



## GREENLEE CHASSIS PUNCHES



Round hole punches for use in mild steel (up to 10 gauge), aluminum, fiberglass and plastic. Make professional chassis punches on your projects. Absolutely no returns unless punch is defective!

1/2"	S-T703012	\$35.95
5/8"	S-T703058	39.95
11/16"	S-T7031116	39.95
3/4"	S-T703034	42.95
15/16"	S-T7031516	43.95
1"	S-T703100	44.95
1 1/8"	S-T703118	49.95
1 1/4"	S-T703114	59.95

## GREENLEE REPLACEMENT DRAW STUDS

For 1/2" and 5/8" punches. Stud is 1/4" x 1 1/8"

S-T703BOLT-SM 9.95

For 11/16", 3/4", 15/16", 1", 1 1/4" and 1 1/2" punches. Stud is 3/8" x 1 1/8" and includes bearing

S-T703BOLT-LG 19.95

## XCELITE PRECISION ELECTRONIC SCREWDRIVERS

S-TXP600 \$24.95

Set contains one each of: 1.5 mm x 60 mm slotted tip screwdriver, 2.0 mm x 60 mm slotted tip screwdriver, 2.5 mm x 60 mm slotted tip screwdriver, 3.0 mm x 60 mm slotted tip screwdriver, #0 point Phillips tip screwdriver and #00 point Phillips tip screwdriver. Features: Chrome-molybdenum steel blades with black oxide tips for prolonged life. No-roll handles are designed to keep drivers from rolling off uneven surfaces. Storage case included.

## DELUXE NIBBLING TOOL

S-T806 \$9.95

Cuts steel up to 18 gauge, as well as copper, brass, aluminum and non-brittle plastics up to 1/16". Cuts any size/shape hole from the edge or from 3/8" inside hole. Spring operated.

## XCELITE 4" RELIEVED TAPERED HEAD CUTTERS

S-TMS543J \$15.95

Diagonal cutting pliers with relieved tapered head flush cutter that allows use between closely spaced components. Green cushion grips.

## XCELITE 5" GENERAL PURPOSE SHEARCUTTERS

S-T170M \$5.75

Low profile, general purpose cutter that flush-cuts soft wire up to 20 AWG (0.8 mm). Features superior blade bypass shear cutting action and shock absorbing grips.

## XCELITE 5" 60° CURVED NEEDLE NOSE PLIERS

S-TCN255 \$17.95

Thin tip and smooth jaws with green cushion grips.

## XCELITE 5.5" SERRATED JAW PLIERS

S-T378M \$9.95

Thin profile long reach pliers for access into tight spaces. Lightweight for maximum comfort with light blue grips.

## XCELITE 6" LONG NEEDLE NOSE PLIERS

S-TNN776 \$16.95

Extra long nose with serrated jaws and green cushion grips.

## XCELITE SEIZER FORCEPS S-T42H

\$7.25

Clamps firmly to hold wires for soldering. Acts as a heat sink and retrieves small parts from hard to reach places. Precision machine tempered stainless steel. Serrated jaws.

## TEST LEAD KIT - MIL SPEC S-Z5R542

\$9.95

Contains: Two alligator clips, two spade lugs, two pin jacks (long), two pin jacks (short), two probe tips, two tip insulators and two universal test jacks. All have threaded male ends. Kit also contains two 5" leads with threaded female ends. All components are rolled up in a convenient pouch. Comes sealed in foil military packaging. The ultimate set of test leads!

## JUMPER WIRE SET S-ZJ4-655

\$6.25

Heavy duty test leads 22" long with insulated alligator clips. Contains one each of black, red, white, green and yellow jumpers. Set of five.

## EREM PRECISION CURVED 4.75" TWEEZERS S-T7SA

\$3.50

Curved for easy manipulation in confined areas with precision point. Stainless Steel.

## DOUBLE END HEX TOOL S-T9091

\$1.75

Molded from Delrin, 5 1/2" long. One end is 7/32" hex with the other being 3/8" hex.

Same as above but with a .100" hex S-T702 2.75

## DUPLEX ALIGNER S-T8276

\$2.25

Butyrate shaft 6 1/4" long with 1/8" wide steel tips. Tip on one end recessed.

## ALIGNMENT TOOL KIT S-T8454

\$6.95

Contains five different tools for all standard adjustments. Includes "Extend-It" for long reaches. Tools are Delrin packaged in pocket-saver pouch. Included tools: 8282 Zenith type, 8606 Hex wrench, 9091 Hex core tool and a 9304 double end tool.

## NYLON ALIGNMENT TOOL KIT S-T9304

\$1.25

Assorted hex and flat tools for alignment work.

## ALIGNMENT TOOL KIT, CB S-T18-530

\$10.95

Contains 5009 Duplex no-metal screwdriver, 5097 K-tran tool, 8271 core aligner, 8282 Zenith alignment tool, 9091 hex iron core tool, 9440 transistor tool, 8276 Duplex aligner and 9304 double end tool.

## CONTACT BURNISHING TOOL S-T9338

\$1.95

Stainless steel strip, microscored to an ultra-fine file surface. Remove oxide and corrosion on contacts made of platinum, palladium, molybdenum, gold, tungsten and silver.

## NICHOLSON HOBBY ASSORTED FILE SET S-T42030

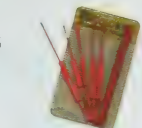
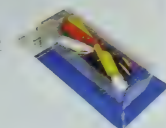
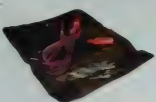
\$27.95

- Selection of 6 miniature files with fine cut for intricate work
- Includes vinyl case
- Ideal for handicrafts and hobbies

## TUBE EXTRACTOR S-T5092

\$11.95

New and improved.



TOOLS

TOOLS



Maxon

**RAT 2****M-RAT2****\$84.95**

Smooth, continuously variable controls for distortion amount, filter cutoff and volume level let you preset just the right degree of overdrive, tune in on the presence and balance the output for that perfect extra boost. Distortion, sustain, fuzz, overdrive - from the sweet wall of the blues to the grinding raunch of the heaviest metal - STOMP ON A RAT! 4" x 3-1/2" x 3". 1.6 lbs

**TURBO RAT****M-TRAT****\$99.95**

The maximum output of 2.8 V (P-P) is more than double that of the "Turbo's" predecessors. Special care has been taken to preserve the hard-clipping harmonic distortion of the "great RAT tone" so that there is no sacrifice of sound in achieving its tremendous output. Heavy duty steel enclosure, LED indicator light, glow-in-the dark graphics. Dare to go beyond the limits of your imagination. Kick on your TurboRAT and DRIVE! 4" x 3-1/2" x 3". 1.8 lbs

**DEUCE TONE RAT****M-DTRAT****\$174.95**

The R2DU revisited! A modern day version of the original, the Deuce Tone Rat is equipped with two diode select switches to produce a variable sonic palette utilizing tones from the Vintage, Turbo, and two never before heard Rat sounds - the Clean and Dirty Rat. The two Rats can be used simultaneously or independently to turn your single channel amp into a multi-channel monster. Rugged steel chassis and mil-spec epoxy-glass pc board insure long life and durability. 4" x 7" x 3". 3 lbs

**JUGGERNAUT - THE BASS PLAYER'S RAT****M-JRAT****\$174.95**

Now, bass players can have their own radically different sound designed specifically for the bass. Provides three functions: A versatile distortion unit, a mixer to combine distortion with direct sound, and an effects loop for use with external processing devices. Utilizing the same steel enclosure as the Deuce Tone Rat, the built-like-a-tank Juggernaut is virtually indestructible. 4" x 7" x 3". 3 lbs

**RAT BATTERY ELIMINATOR****M-RPS1****\$14.95**

No more searching for 9-volt batteries or electrocuting your tongue to find a good one. Works with all Rats. 2" x 1-1/2" x 1-1/2". 0.4 lbs

**THE RATTLER™ EFFECTS PEDAL KIT****K-900****\$49.95**

Build your own distortion effects pedal! Tone similar to the Vintage 60's and 70's effects pedals. Pre-drilled diecast aluminum boxes. Comes with variable components to customize your tone! Uses 9-volt battery which is not included. 12 oz.

**OD808 OVERDRIVE****M-OD808****\$119.95**

The Original Overdrive! The OD808 is often imitated but never matched! Identical to the 1970's circuit and featuring the JRC4558 IC chip, it offers warm, smooth, transparent overdrive that'll make your rig scream! The OD808's dynamically responsive circuitry reacts precisely to individual playing styles, letting the true voice of any instrument or artist shine through. Don't settle for copies when you can have the original! 4-1/4" x 2-1/4" x 2". 0.8 lbs

**CP101 COMPRESSOR****M-CP101****\$127.50**

Provides clean, smooth compression with low noise. Unlike other compressors, the CP101 doesn't alter an instrument's attack characteristics, providing a more natural response. The CP101 can be used to increase an instrument's sustain or to limit signal peaks for a smooth, even output. The CP101 works perfectly with bass guitar, electric guitar or semi-acoustic guitar. 4-1/4" x 2-1/4" x 2". 0.8 lbs

**OD9 OVERDRIVE****M-OD9****\$135.00**

The OD9 may look just like your old favorite, but that's where the similarities end. Improved circuitry featuring the JRC4558 IC yields the ultra-smooth, creamy, dynamic overdrive so sought after by guitarists. Overdrive and output level controls adjust the intensity of overdrive and output volume, while the Hi Boost/Hi Cut Tone control adjusts the brightness from warm and smooth to sizzling hot. From subtle boosts to outrageous roars, the OD9 provides the artist with the widest range of usable, distinctly tube sounds available.

# EFFECTS PEDALS



## HOTPLATE™ POWER ATTENUATOR

A power attenuator is a device placed between the speaker output and the speaker cabinet. It acts like a huge master volume control and permits the amp to be turned up most or all the way while absorbing most of the power generated by the amplifier and turning this power into heat. It passes a small part of the power to the speaker. Hotplates™ are used in recording studios for better separation between the instruments, and for use when the speaker sounds best at low levels, needs to play at low levels, or if it can't handle the power output. The Hotplate™ also makes a perfect dummy load. They can take 185 watts RMS continuous. The attenuation feature allows you to hook a speaker cabinet up to the load to monitor the signal. The line-out feature allows you to monitor the signal via a separate amplifier or hi-fi. The light shows you visually when there is signal present, and how much (relatively). 5 lb. each.

2 ohm Gold	M-HP-2	\$295.00
4 ohm Red	M-HP-4	295.00
8 ohm Purple	M-HP-8	295.00
16 ohm Blue	M-HP-16	295.00



## FENDER® GUITAR CABLES

Vintage Cables provide a quality tone and vintage look. Each cable is constructed of gold tipped plugs and oxygen-free copper wire. They are wrapped with either tweed, black & silver, wheat or oxblood woven exteriors.

Tweed, 10 feet	P-H272	\$15.95
Tweed, 18 feet	P-H273	18.95
Black/Silver, 10 feet	P-H274	15.95
Black/Silver, 18 feet	P-H275	18.95
Brown/Wheat, 10 feet	P-H276	15.95
Brown/Wheat, 18 feet	P-H277	18.95
Brown/Oxblood, 10 feet	P-H278	15.95
Brown/Oxblood, 18 feet	P-H279	18.95



## EXCELLINES GUITAR CABLES

### Guitar Cable with Straight Phone Plugs

Excellines cables are the world renowned industry standard and the musician's choice. Made with G&H 1/4" BigFoot phone plugs.

1 foot	P-HEG1	\$14.95
2 feet	P-HEG2	14.95
3 feet	P-HEG3	14.95
5 feet	P-HEG5	15.95
10 feet	P-HEG10	16.95
15 feet	P-HEG15	18.95
18.5 feet	P-HEG186	19.95
25 feet	P-HEG25	21.95
30 feet	P-HEG30	22.95

EXCELLINES  
PRO AUDIO CABLE



### Cable With One Straight Phone Plug & One Right Angle Phone Plug

Made with G&H 1/4" BigFoot phone plugs.

10 feet	P-HEG10L	\$16.95
18.5 feet	P-HEG186L	21.95



### 16 AWG Speaker Cables 1/4" Phone Plug to 1/4" Phone Plug

Excellines 16 AWG two conductor portable speaker wire with G&H phone plugs.

3 feet	P-HSG16-3	\$16.95
6 feet	P-HSG16-6	17.95
10 feet	P-HSG16-10	19.95
25 feet	P-HSG16-25	25.95

# GUITAR CABLES





## THE ROCKET RADIO

K-439

\$10.95

The original rocket radio was first offered in the 50's and now it's back. It's a fun way to learn about radios and how they work. Suggested for ages 8 and up. Includes: Rocket with tuning rod nose cone, crystal earphone, and antenna lead clip. 4 oz.

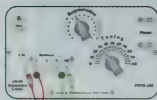


## WORLD WAR II FOXHOLE RADIO KIT

K-414

\$13.95

Build an AM receiver using only a razor blade, pencil lead, coil and earphone! Contains all necessary parts, base and instruction book. 6 oz.



## TWO TUBE REGENERATIVE RADIO KIT WITH RF AMP

K-425

\$39.95

Broadcast bands to 8 MHz. Operates on a 1.5V "C" size and 45V (S-Z415) battery and two 1T4 tubes (order these items separately). RF amplifier stage boosts input signal and prevents radiation to feed-back into antenna, typical of regenerative receivers. Kit includes pre-drilled base and front panels, dial panel, variable capacitor, germanium diode, coil forms, coil wire, knobs, hook-up wire and hardware. 4-1/2" x 7-3/4" x 4-3/4". 1 lb. Optional: Unassembled/Unfinished pine cabinet available (K-600)



## ANTENNA TRAP KIT

K-434

\$22.95

Very useful for crystal, TRF and regenerative radio experimenting. This trap, when placed in series with your antenna can help to null powerful stations that "swamp" the weaker ones. Unit works more efficiently with Antenna Tuner Kit (K-435). Kit includes pre-drilled base and front panels, professional dial panel, variable capacitor, germanium diode, coil forms, coil wire, knobs, hook-up wire and hardware. 4-1/2" x 4-3/4" x 3-3/4". Antenna/Ground wire not included. 1 lb. Optional: Unassembled/Unfinished pine cabinet available (K-600)

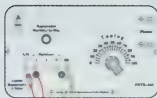


## ANTENNA TUNER KIT

K-435

\$29.95

Tuner covers 375 KHz through 30 MHz! Can be switched from "parallel" to "series" resonance for more complete coverage on all bands. Coil is tapped for inductance changes. Most efficiently used with AM Rejecter Trap (K-434). Kit includes pre-drilled base and front panels, professional dial panel, variable capacitor, germanium diode, coil forms, coil wire, knobs, hook-up wire and hardware. 4-1/2" x 7-3/4" x 4-3/4". Antenna/Ground wire and headphones not included. 1 lb. Optional: Unassembled/Unfinished pine cabinet available (K-600)



## ONE TUBE REGENERATIVE RECEIVER KIT

K-436

\$29.95

With ("spider web" coils) Broadcast band through 8MHz (approx.) Kit includes pre-drilled base and front panels, professional dial panel, variable capacitor, germanium diode, coil forms, coil wire, knobs, hook-up wire and hardware. 4-1/2" x 7-3/4" x 4-3/4". Antenna/Ground wire, headphones and 1T4 tube not included. Operates on a 1.5V "C" size and 45V (S-Z415) battery not included. 1 lb Optional: Unassembled/Unfinished pine cabinet available (K-600)



## TWO TUBE AF AMPLIFIER KIT

K-437

\$19.95

Greatly boosts the audio output of small receivers. Used with Crystal, TRF and Regenerative Receivers and high impedance earphones. Power requirements: 45-90 V/DC, Plate and 1-1/2 V/DC Filament power. May use: A/B Battery Supply Kit (K-438 recommended), or K101A Kit. Kit includes pre-drilled base and front panels, professional dial panel, Volume Potentiometer, Tube Sockets, knobs, hook-up wire and hardware. 4-1/2" x 7-3/4" x 4-3/4". Headphones and two 1S4 tubes not included. 1 lb. Optional: Unassembled/Unfinished pine cabinet available (K-600)

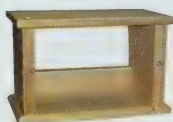


## A/B BATTERY SUPPLY KIT

K-438

\$19.95

Provides A/B battery power for small, tube-type regenerative radios and amplifiers using tubes with 1-1/2 V/DC filaments. This kit uses ten 9V transistor batteries and two "C" cells. Kit includes pre-drilled base and front panels, professional dial panel, battery holders, hook-up wire and hardware. Batteries not included 4-1/2" x 7-3/4" x 4-3/4". 1.0 lb. Optional: Unassembled/Unfinished pine cabinet available (K-600)



## UNFINISHED/UNASSEMBLED PINE CABINET

K-600

\$22.50

New and very versatile. This handsome cabinet is made of pine and can be assembled and finished very easily. Adds a remarkable, professional look to your projects. Comes with all materials and hardware, including quick and easy instructions. For panels 4-3/4" x 7-3/4" x 1/8" thick, approx. 5-3/4" deep. 1.5 lbs. Use with kits: K-425, 434, 435, 436, 437 and 438.



# KITS

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Antique Electronic Supply • 480.820.5411 • [www.tubesandmore.com](http://www.tubesandmore.com)



## POWER SUPPLY KIT FOR EARLY BATTERY RADIO

K-101A

\$53.95

Input: 120V, 60 Hz. "A" Output: Adjustable and regulated 1.5 to 7.5 volts, 1.5 Amps. "B" Output: 22, 45, 67, 90, and 135 volts regulated up to 50 mA. "C" Output: Adjustable, 0 to 22 volts. Regulated. Kit includes transformer, rectifiers, capacitors, resistors, transistors, I.C. regulator and all hardware and white pine board. Easy to follow instructions for assembly. 3.0 lbs.

## WIRELESS TRANSMITTER KIT

K-488

\$39.95

Now your antique radio can play some of the same programs it did when it was new! With your cassette tape player, phonograph or high output microphone, this one-tube transmitter becomes a miniature AM broadcasting station, patterned after the 1939 Zenith model S-7000 Wireless Record Player. Assemble on a 4 x 6-1/2" breadboard, all parts and instructions included. 2.0 lbs.

## MONOBLOCK AMPLIFIER KIT

K-501

\$89.50

Input Impedance: 100K ohms, Output Impedance: 8 ohms, Power Output: 8 watts, Frequency Response: 20 to 20,000 Hz Minimum Input for Full Output: 0.3V, Total Harmonic Distortion @ 1 W: <1%. Uses 11M58 tubes included in the kit. Also includes board for mounting PC board and transformers. 5 lbs. 10 oz.

## STEREO INTEGRATED AMPLIFIER KIT

K-502

\$139.50

Input Impedance: 100K ohms, Output Impedance: 8 ohms, Power Output: 8 watts per channel, Frequency Response: 20 to 20,000 Hz, Minimum Input for Full Output: 0.3V, Total Harmonic Distortion @ 1 W: <1%. Uses 11BM8 tubes included in the kit. Also includes board for mounting PC board and transformers. 6 lbs. 10 oz.

## THE RATTLER!

K-900

\$49.95

Build your own distortion effects pedal! Easy to build, point to point wiring. Tone similar to the Vintage 60's and 70's effects pedals. Pre-drilled diecast aluminum boxes. Comes with variable components to customize your tone! Uses 9-volt battery which is not included. 12 oz.

## CRYSTAL RADIO KIT

K-417

\$24.95

A simple, yet highly sensitive crystal radio kit made out of common items found in most homes. Comes with pre-wound coil and galena crystal. Great one night project for the beginner or the kids. Marvel at listening to a radio made from "nothing".

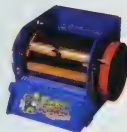


## BEGINNERS CRYSTAL RADIO KIT

K-401

\$10.95

Crystal radio kit is ideal for the beginning radio hobbyist. Comes complete with tuning coil that you get to wind, slider, germanium diode and earphone. 7 oz.



## CRYSTAL DETECTOR

K-412

\$18.50

Beautiful wood based detector comes complete with cat's whisker, ball and rod assembly, holder for galena crystal and old style binding posts. Base is 1-1/4" x 3-1/4". 2 oz. Galena crystal (P-Q111) not included.



## PLUG-IN COIL FORMS

P-C211

\$5.75

Wind your own coils with these brown plastic plug-in coil forms. 2-5/16" x 1-1/4" dia. Standard 5-pin base.



## GALENA CRYSTALS

P-Q111

\$2.75

Mounted Galena Crystals, like those used in early crystal detectors. Ideal for K-412 and other detectors.



## NOS CERAMIC COIL FORM

P-C210

\$3.95

1-5/8" tall with adjustable slug.



## CRYSTAL COVER

P-D125

\$11.95

Glass crystal cover for Philmore and other crystal sets. 1" overall diameter by 1-9/16" high.



## CAT'S WHISKERS

P-H415

\$3.00

Similar to the Philmore cat's whiskers and others. Made of phosphor bronze. Pkg/3.

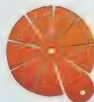


## SPIDER WEB COIL FORM

P-H500

\$2.95

Same as used in K-436. 3-3/4" dia. Made of press board. Has leg for mounting to radio base. Use with magnet wire on p. 75.



## MASCOT TUNING COIL

P-M166

\$39.95

A working reproduction of the loose coupler featured in the William B. Duck Catalog of 1921. Beautifully finished mahogany ends and brass rods. Originally advertised as designed to greatly increase the range of any of the receiving sets for experimental use. With 60 foot aerial it will respond to wave lengths up to about 800 meters. 3-1/2" square by 7-1/8" long. Assembled. 1 lb.



## CRYSTAL EARPHONE

P-A480

\$3.25

High impedance crystal earphone is very sensitive and works great with crystal radios. Has 3 ft. cord and miniature (3.5mm) plug.



For antenna kits, see page 73.

AN APPROACH TO  
AUDIO FREQUENCY  
AMPLIFIER DESIGN  
Norman H. Crowhurst  
1957, 126 pages, 6" x 9"

A TUBE MANUAL  
THE CRABE ELECTRIC CO. LTD. OF ENGLAND  
1957, 126 pages, 6" x 9"

NORMAN H. CROWHURST  
AUDIO  
MEASUREMENTS  
A TUBE MANUAL  
1957, 126 pages, 6" x 9"

THE CRABE ELECTRIC CO. LTD. OF ENGLAND  
1957, 126 pages, 6" x 9"



## AUDIO

### An Approach to Audio Frequency Amplifier Design

B-679

\$19.95

First published in 1957 by the Valves and Electronics Department of General Electric Company of England, this book covers the essential details and circuit diagrams of a wide range of audio frequency amplifiers from a 5 watt ultra-linear to an 1100 watt Class AB2 amplifier. All designs are based on vacuum tubes. Full parts list accompanies each schematic. 126 pgs, 0.6 lb, 6" x 9"

### Audio Measurements

By Norman H. Crowhurst

B-814

\$12.95

This book begins with measurement techniques and follows with a full discussion of all manner of test equipment. Although it deals with the equipment of the day, most based on vacuum tubes, much of that equipment is still available. Fully indexed, the book is a comprehensive and informative volume on determining the quality and performance level of almost any piece of audio equipment. 223 pgs, 1 lb, 5.25" x 8.25"

### Beginner's Guide to Tube Audio Design

By Bruce Rozenblit

B-761

\$24.95

Are you interested in tube audio but don't know where to start, or are you already using tubes but don't know what's going on in the circuit? Rozenblit describes with simple clear explanations what a tube is, how it works, how to read characteristic curves and understand specifications. He then discusses one stage amplifiers, gain circuits, negative feedback, power supplies as well as a tour of amplifier parts of all types. 132 pgs, 1.0 lb, 8.5" x 11"

### Evolution of the Audio Recorder

By Phil van Praag

B-759

\$39.95

Finally, a comprehensive guide to the audio recorder, this book explains the mysteries and tracks the evolution of the audio recorder. Provides repair and restoration guidelines, buying tips, identification criteria and pricing guidelines. Covers over 125 brand names, with over 500 photos and illustrations. The definitive guide to vintage wire and tape recorders. 500 pgs, 1.1 lb, 5.5" x 8.5"

### The LP is Back!

B-823

\$12.95

From the pages of Audio Amateur magazine and other sources, absolutely everything the serious LP music collector needs to get the most out of both vintage records and the highest quality new pressings. Articles cover: Cleaning discs; how to build a cleaning machine; calibrating and maintaining your tonearm and cartridge; equipment which will improve the quality of long play record listening. Collected from the high point of this old-new again technology, The LP is Back! brings a wealth of information to help you keep your equipment in top form and help you understand and appreciate the best in new products available from cartridges to turntables. 160 pgs, 1 lb, 8" x 10.5"

### Mullard Circuits for Audio Amplifiers

B-655

\$16.95

A reprint of a 1959 publication of Mullard Ltd., detailing high-quality circuits for audio amplifiers, pre-amplifiers and other stereophonic reproduction equipment. These designs were originated by Mullard engineers at the Mullard Applications Research Laboratory, and originally appeared in various magazine articles with notes on construction and assembly. 136 pgs, 1.0 lb, 8" x 10"

### Power Amp Projects: 26 Articles on Power Amplifier Projects Appearing in Audio Amateur Magazine from 1970-1989

B-754

\$19.95

Re-printed articles on amplifiers for the home (both tube and solid state), amplifiers for a car and even an electrostatic speaker system. Original designs as well as upgrades to older equipment. Article authors include Roger Sanders, Nelson Pass, Reg Williams, Erno Borbely and more. Altogether this book offers designs from authors from six countries to fit almost any need for the resourceful amateur who prefers the pleasure of building his or her own. 201 pgs, 1.1 lbs, 8.5" x 11"



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## AUDIO

### Principles of Power- A Practical Guide to Tube Power Amplifier Design

By Kevin O'Connor

B-726

\$39.95

Offers a simplified method for designing tube power amps for audio. Tube operation is explained, as are circuit principles. Class-A or B, cathode, fixed bias, and push-pull and single-ended designs are covered, as are many front-end circuits. Includes designs using off-the-shelf transformers and current production tubes. Power outputs of 15 to 400W are depicted using pentodes and true triodes. Also, covers power supplies, selected tube data, and information on Hammond and Plitron transformers.

210 schematics. 221 pgs, 1.7 lbs, 9" x 11"

### Valves for Audio Frequency Amplifiers With Details for Building Eight Circuits

B-779

\$16.95

Reprinted from the Philips Technical Library, by Audio Amateur Press. Philips, one of the world's oldest tube manufacturers, offered this manual for enthusiasts in 1954. It's a practical volume for building quality audio amplifiers. Topics include; using the operating data provided, feedback, tone control, the output transformer, amplifier input circuits, microphone, gramophone pickups, & loudspeakers. There are pointers to keep control of hum, noise, interference and heat to avoid noisy and destructive operation.

144 pgs, 0.5 lbs, 5.75" x 8"

## CRYSTAL SETS

### Crystal Clear, Volume 2 Vintage American Crystal Sets, Crystal Detectors and Crystals

By Maurice L. Sievers

B-698

\$24.95

Comprehensive guide to crystal sets, detectors and crystals produced in the U.S. from 1920 to 1955. Includes hundreds of illustrations and advertisements. In addition to many entirely new listings and missing details which would not fit in Volume 1, a few corrections to listings in Volume 1 are included.

244 pgs, 1.9 lbs, 8.5" x 11"

### Crystal Radio Bonanza

B-905

\$19.95

Volumes 9, 10 & 11 of the Xtal Set Society Newsletter, 18 issues from January 1999-November 2001. Over 20 complete projects with detailed instructions along with Q&A. Also contains reprints from old magazines. 226 pages, 1.9 lbs, 8.5" x 11"

### Crystal Receiving Sets and How to Make Them

Edited by Bernard E. Jones

B-860

\$10.95

Deals with the making of a number of crystal sets representative of those in present-day use.

Compiled from the pages of "Amateur Wireless," the well known weekly journal for wireless amateurs.

133 pgs, 1 lb, 5.5" x 8.5"

### The Crystal Set Handbook

By Phillip N. Anderson

B-673

\$11.95

A practical "how-to" book of crystal radio construction. Contains a simple oat box project, formulas for coil inductance and coil Q, a procedure for measuring coil capacitance and theory for L-C circuit matching.

130 pgs, 0.5 lb, 5.25" x 8.25"

### Crystal Set Loopers, A 3 Tuber & More, Volume 8

Edited By The Xtal Set Society

B-819

\$15.95

The biggest and best volume yet of the Society Newsletter. Has complete directions for building 5 crystal radios, a 3 tube radio and a homebrew variocoupler. Learn about biasing effects on diode performance and crystal detector experiments. Discover crystal set secrets by reading letters from members all over the world. This book continues to focus on simple, old-time, elegant radio circuits. Includes projects you can build, schematics, radio secrets and theory articles. Build a Short-wave looper, Antenna

Tuner/AM trap, a Crystal Set from a deodorant stick and more. 128 pgs, 1 lb, 6" x 9"

#### PRINCIPLES OF POWER

A PRACTICAL GUIDE TO  
TUBE POWER AMPLIFIER  
DESIGN

By Kevin O'Connor

PHILIPS TECHNICAL LIBRARY

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AUDIO FREQUENCY  
AMPLIFIERS  
With Full Details for  
Building Eight Circuits

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AUDIO AMATEUR PRESS



# CRYSTAL SETS

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## CRYSTAL SETS

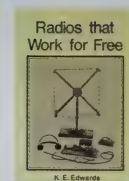
### The FM Crystal Set Project

By Phil Anderson, WØXI

B-902

\$9.95

An FM crystal set is not a normal thing! FM radio didn't even exist until the mid-1940s. By then tube sets were available and economic conditions had improved. So, it's doubtful that more than a handful of FM crystal sets were attempted. I first thought about and wrote an article on trying an FM crystal set in the November 1992 Newsletter. Ed Richley, a society member, picked up the challenge and reported on a quadrature no-amplification design, "An FM Xtal Set", in Volume 6, No. 1 and No. 2. A couple of months ago I was browsing through my old book pile and ran across Traveling-Wave Engineering, by R. K. Moore. In his pages I rediscovered coaxial resonators. Coaxial resonators can achieve very narrow selectivity (and very high Q). Super selectivity is a must in order to develop enough voltage for the FM set detector to work. Slope tuning is used- tinning just above or below a station's frequency - to convert the FM signal to an AM signal. The traditional crystal set takes over then, developing audio for your headphones. This book details the project. 50 pgs, .1 lb, 4" x 5.5"



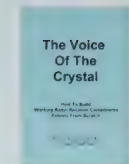
### Radios That Work for Free

By K.E. Edwards

B-341

\$13.95

An experimenters handbook on crystal radios, this book includes instructions and theory for building many different crystal radio circuits. 140 pgs, 0.5 lb, 5.5" x 8"



### The Voice of the Crystal

By H. Peter Friedrichs

B-851

\$14.95

How to build working radio receiver components entirely from scratch. Contains basic theory of crystal radio operation including description of simple headphones, characteristics of a good detector, capacitor characteristics, coil designs, simple tuners and antennas. 183 pgs, 0.5 lb, 5.5" x 8.5"



## GUITARS & GUITAR AMPS

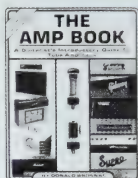
### 50 Years of Fender

By Tony Bacon

B-870

\$21.95

Fender is the most successful modern maker of electric guitars, and recently marked the 50th anniversary of its first instrument. This new book tells the complete year-by-year story of Fender's development from 1950 to 2000 accompanied by stunning photographs of players, instruments and memorabilia. 50 Years of Fender is a beautiful, detailed examination of five decades of great guitars and the fine music they inspire. Full Color. 128 pgs, 1.5 lbs, 8.5" x 11"



### The Amp Book: A Guitarists Introductory Guide to Tube Amplifiers

By Donald Brosnac

B-688

\$21.95

Covers what an amp is, how an amp works and what to look for in an amp. Includes history of tube amps from 1932 to the present with detailed information on the evolution of amps both internally and externally. Fender, Gibson, Gretsch, Vox, Ampeg as well as others are covered. 64 pgs, 0.6 lb, 8.5" x 11"



### AMPEG "The Story Behind the Sound"

B-917

\$31.95

This is an excellent book detailing the history of Ampeg and related companies as well as providing interesting information on the people who made the company what it is. Includes a great section of full color photographs of Ampeg products as well as photos of musicians who used them. Highly recommended!



### The BOSS Book

B-889

\$19.95

The ultimate guide to the world's most popular compact effects for guitars. Included: Complete detail and story on every BOSS compact ever made, photos, design history, trivia, tricks, secrets and more, candid interviews with the BOSS founder and design engineers, essays on musical trends and famous players, a CD ROM featuring 72 guitar sounds with control settings and detailed equipment set-ups to take your playing to a whole new dimension. 121 pgs 1.0 lbs, 8.5" x 11"



# GUITAR

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## GUITARS & GUITAR AMPS

### Building Vacuum Tube Guitar & Bass Amplifiers, Volume 1

By Tino Zottola

B-911

\$24.95

Building your own vacuum tube guitar or bass amplifier from scratch is truly an exciting experience. This book describes the detailed construction of five vacuum tube amplifiers. The construction of these amplifiers is described in full detail with chassis drilling template, component installation, wire-by-wire hook-up and schematic. The amplifier projects included in this book are: Sonic MA1 (two tube amp, late 1950's design with a solid state rectifier), All American 4 (four tube amp, early 1960's design using common radio tubes found in "All American 5" radios made between 1947 and 1971), Champ Amp (classic replica of a 1950's Fender amp with a single ended 6V6 output tube), Deluxe Amp (classic replica of a 1940's Fender amp with push-pull 6V6 tubes), Bassman (classic replica of a 1950's Fender amp with push-pull 6L6 tubes). 120 pgs, spiral bound. 0.7 lbs, 8.5" x 11"

### Building Vacuum Tube Guitar & Bass Amplifiers, Volume 2

By Tino Zottola

B-915

\$24.95

The follow-up book to Volume 1 in the series, covering more advanced amplifier construction projects for the experienced builder. Detailed plans for the five classic vacuum tube amplifiers: Deluxe (5E3) 15 watt amp with push-pull 6V6's; Bassman (5F6A) 50 watt amp with push-pull 6L6's; AC30 Top Boost 30 watt amp with quad push-pull EL84's with Top Boost Mods, minus Vibrato circuit; Plexi Super Lead (1959) 100 watt amp with quad push-pull EL34's with master volume mod and Twin Reverb (AB763) with quad push-pull 6L6GC's with Black Face mods. 135 pgs, spiral bound. 0.7 lbs, 8.5" x 11"

### Complete Guide to Guitar and Amp Maintenance

#### - A Practical Manual for Every Guitar Player

By Ritchie Flegler

B-701

\$14.95

From the author of "AMPS!" comes an essential survival guide for every guitar player and amp owner. Packed with concise, clearly written tips on troubleshooting and repairs, with straightforward, step-by-step instructions using readily available tools. Contains over 150 photos. 80 pgs, 0.6 lb, 9" x 12"

### Dave Funk's Tube Amp Workbook- Complete Guide to Vintage Tube Amplifiers Volume 1

By Dave Funk

B-732

\$38.95

A large, easy to read tube amp book, designed to be an invaluable reference to those working on or building their own tube amps. Learn how to approach a service job, the tools you'll need on your workbench, and how to use them. Loaded with cross-reference material, lookup tables, formulas and the information you'll need to know when your amp is working properly. 421 pgs, 2.5 lbs, 11" x 8.25"

### A Desktop Reference of Hip Vintage Guitar Amps

By Gerald Weber, owner of Kendrick Amplifiers

B-663

\$29.95

He answers questions about vintage guitar amplifiers on topics such as biasing for output tubes and easy modifications. He includes an analysis of Fender classics such as the Tweed Champ, Tweed Deluxe, Deluxe Reverb, Super Reverb and others. Also included are schematics for Ampeg, Fender, Gibson, Hiwatt, Magnatone, Marshall™, Rickenbacker, Silvertone and Vox amps. 500 pgs, 1.5 lbs, 6" x 9"

### Fender Amps, The 1st 50 Years

By John Teagle and John Sprung

B-702

\$34.95

This is the definitive book on Fender's much revered amplifiers. Includes extensive information on the amplifiers that made Fender famous. Has a great section of color photographs of Fender amps and related products as well as a section of photos of parts such as tolex and grill cloth, with the corresponding amp models and years that they were used. This is a must have for any fan of Fender amps!!! 256 pgs, 2.2 lbs, 8.5" x 11"





### The Guitar F/X Cookbook & CD ROM

By Chris Amelar

B-888

\$14.95

The ultimate source for guitar tricks, effects, and other unorthodox techniques. This book demonstrates and explains 45 incredible guitar sounds using common stomp boxes and a few unique techniques! Fully illustrated. 55 pgs, 0.6 lbs, 9" x 12"



### Great Tube Amp and Guitar Mods

By Mike Thompson

B-737

\$17.95

Over 50 useful modifications for Fender and Marshall amps and guitars. The author lets readers in on some neat little tricks that can be done to their equipment. All modifications are simple and can be done with easy to find parts. Also includes speaker cabinet and equipment tips for the musician who wishes to customize. 150 pgs, 1.1 lbs, 8.5" x 11"



### Guitar Player Repair Guide- How to Set Up, Maintain and Repair Electrics and Acoustics

By Dan Erlewine

B-784

\$22.95

This revised edition is a step-by-step manual to maintaining and repairing electric or acoustic guitars and basses. Players will master the basic maintenance and set up of a guitar. An advanced crafts-person will discover this to be a valuable reference source for complex procedures such as replacing nuts and frets. This second edition incorporates new techniques and tools, plus detailed repair information for specific models. 309 pgs, 2.0 lbs, 8.5" x 11"



### The Hammond Organ, Beauty in the B - 2nd Edition - The Story of the B-3 and Other Great Hammond Organs, Plus the Leslie Speaker, and much more

By Mark Vall

B-788

\$27.95

This book celebrates the history and influence of the Hammond B-3 and its right-hand man, Leslie Speaker. It explains the tone wheel system that renders the famous Hammond sound, and reveals secrets behind the B-3's drawbars, presets, pedalboard, percussion, and other unique features. Also features "25 licks you must know," plus tips from the masters of the B-3. 239 pgs, 1.5 lbs, 8.25" x 10.75"



### The High Performance Marshall Handbook- A Guide to Great Marshall Amplifier Sounds

By John Boehnlein

B-696

\$14.95

Includes chapters on standard amplifiers from 1962 to 1990, retubing for maximum performance, how to overdrive master volume and much more. 55 pgs, 0.5 lbs, 8.5" x 11"



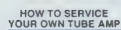
### The History of Marshall

By Michael Doyle

B-661

\$32.95

The definitive account of the guitar manufacturer known as the "sound of rock." Includes complete listings of every product Marshall ever made, over 100 schematics, the history of the Celestion speaker and early catalog reprints. Hundreds of photographs, including 64 color plates. 254 pgs, 2.1 lbs, 9" x 12"



### How to Service Your Own Tube Amp

By Tom Mitchell

B-707

\$29.95

A well organized and easy-to-understand approach to guitar amplifier repair covering basic electronics, reading schematics, understanding tubes and transformers, tube biasing and use of test equipment. Also provides 10 troubleshooting flowcharts, voltage charts for typical amplifiers, and many modifications that you can do yourself. 250 pgs, 2.3 lbs, 8.5" x 11".



### Inside Tube Amps - The Book on Tube Amps

By Dan Torres

B-733

\$36.95

This book is written for musicians, not technicians. This book will help you get your personal sonic signature, and give you the knowledge to change it when your tastes change. Some approaches are new and experimental, some are very old. Looks at "standard practices" as well as tricks and techniques outside of the "perfect specs". 310 pgs, 1.9 lbs, 8.5" x 11"



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## Tonnes of Tone

By Kevin O'Connor

B-749

\$28.95

A collection of projects for electric guitar and bass players. Save money by building your own acoustic preamp; build a two-channel tube preamp for guitar, and more. Construct a 15W tube power amp or a true class-A solid state amp. The "experimenters power supply" is excellent for tinkering with tube circuits, containing separate AC heater, DC heater plate and bias supplies. Build a wide range tremolo circuit and an all-tube reverb unit. Circuit operation, construction, & layout guidelines are provided. Every project uses easy to find parts. 105 pgs, 1.0 lb, 8.25" x 11"

## The Tube Amp Book, Edition 4.1

By Aspen Pittman

B-581

\$34.95

Newly revised and expanded, Edition 4.1 contains company histories of guitar amp manufacturers. Contains 460 pgs of schematics for popular amps, tube data on commonly used audio tubes and 50 pgs of "Vintage Fantasy" color pictures of collectible guitars and amps. 765 pgs, 2.1 lbs, 5.75" x 8.25"

## The Tube Amp Book, Deluxe Hardcover Edition with CD-ROM

By Aspen Pittman

B-910

\$49.95

Already known as the bible of tubes and tube amps, The Tube Amp Book is now even better. This deluxe revised edition features 40% new material including a CD-ROM of circuit diagrams plus a dramatically improved design and page layout. The book's technical tips, in-depth electronic specs and explanations, rare schematics, and full-color plates make it a must-have for the legions of tube-tone fanatics. Spiral hardcover. 416 pgs, 6.0 lbs, 9.75" x 12.5"

## Tube Amp Talk for the Guitarist and Tech

By Gerald Weber

B-773

\$29.95

A compilation of articles written for Vintage Guitar magazine from 1993 to 1996. Includes sections with articles on servicing your guitar amp, modifications, and also includes a "Trainwreck" section full of articles written by Ken Fischer for Vintage Guitar. Foreword is written by Billy F. Gibbons. 537 pgs, 2 lbs, 6" x 9"

## The Ultimate Tone Volume 1- Modifying and Custom Building Tube Guitar Amps

By Kevin O'Connor

B-695

\$61.95

Offers the technician or hobbyist information for properly implementing guitar amplifier modifications. Topics include stage setups, amplifier brand surveys, vacuum tube and power supply operation, preamp circuits and master volume, tube type comparison, and effect loops. Includes an extensive discussion of switching methods. Includes data for 17 common tube types and for two Hammond Mfg. transformer model lines. Spiral bound, 395 figures. 368 pgs, 2.5 lbs, 8.5" x 11"

## The Ultimate Tone Volume 2- Modifying and Custom Building Tube Guitar Amps

By Kevin O'Connor

B-772

\$44.95

The achievement of great, live sound is the premise used to explore modern high-gain guitar pre-amps; proper treatment of acoustic instruments; tube vocal PA's; dynamic bass gear; all types of tube, semi, hybrid and alternative power amplifier design; power supply mods that are "toneful"; simple switching methods; speaker cabinet design; getting the most from effects loops and chains; and, modular stage monitoring systems that work! Circuits are explained so the tinkerer can build or modify guitar equipment with confidence and success. Spiral bound. 200 figures. 250 pgs, 1.9 lbs, 8.5" x 11"

## The Ultimate Tone Volume 3- Generations of Tone

By Kevin O'Connor

B-891

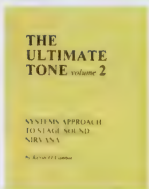
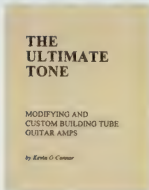
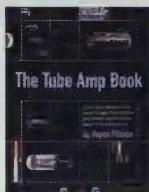
\$61.95

Have you ever wondered if there is a better way to build a Bassman, Champ, Plexi, AC-30, Bulldog or Portaflex. Or you wanted to build an SVT with off-the-shelf parts? How about a master-volume amp that doesn't change tone with the master setting. Everything you need to know is right here, including: proper grounding techniques, wiring methods, and mechanical considerations. Eighteen chapters cover the "iconic" amps everyone knows and loves, with schematics and layouts for each, along with the technical history of the product. Eyelet-board and chassis-mounted tube socket construction is used throughout, for easy servicing and modding. 360 pgs, spiral bound. 2.2 lbs, 8.5" x 11"

## TONNES OF TONE

112 TUBE-DRIVEN PROJECTS FOR GUITAR AND BASS

By Kevin O'Connor





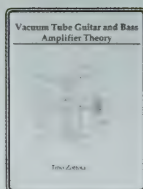
## The Ultimate Tone Volume 5- Generations of Tone

By Kevin O'Connor

B-913

\$57.95

Every part of your system contributes to your Ultimate Tone, so every part is important. TUT5 delineates, in clear language, the function of each electronic component in a circuit, and how alterations to the value of each part affect the final sound. Gain stage voicing, interstage attenuator optimization, sustain restoration for clean and distorted tones, power amp and preamp "tone generators", simple boost pedals, amp selectors and power conditioners are all covered, with designs using off-the-shelf parts. Like TUT3, this is a "project book" presenting design challenges and solutions, with a diversity of tube and solid-state circuits for bass, guitar and keyboards. Spiral bound, 2.0 lbs, 8.5" x 11"



## Vacuum Tube Guitar and Bass Amplifier Theory

By Tino Zottola

B-735

\$16.95

Describes the history and operation of vacuum tubes as well as how they are used in guitar/bass amplifier circuits. Amplifier electrical and physical layout is then examined. The factors affecting amplifier sound are also described. Included in the appendices is useful data such as: resistor and capacitor codes, vacuum tube electrical data, wire gauge table, and musical scale frequency chart. 59 pgs, 0.6 lb, 8.5" x 11"



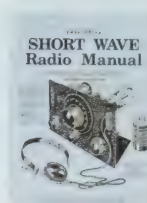
## Vacuum Tube Guitar and Bass Amplifier Servicing

By Tino Zottola

B-736

\$17.95

Guitar amp repair is split into several categories: user serviceable problems (fixable without chassis removal), dead and strange sounding amps. Includes sections on amp disassembly, preventative maintenance, special effects repair, signal tracing, component testing and replacement, bias adjustment, tube matching and amp mods. It's assumed the reader knows basic electronic theory, can read schematics, and can use tools and test equipment. 84 pgs, 0.8 lb, 8.5" x 11"



## HAM RADIO, SHORTWAVE & COMMUNICATIONS

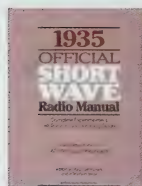
### 1934 Official Shortwave Radio Manual

Edited By Hugo Gernsback

B-390

\$15.95

A high-quality reprint of Gernsback's 1934 "Complete Experimenter's Set-Building and Servicing Guide," including a "Full Directory of All Short Wave Receivers." Contains schematics of over one hundred different commercial receivers, along with a construction section showing how to build many early short wave receiving and transmitting circuits. 260 pgs, 1.7 lbs, 8.5" x 11"



### 1935 Short Wave Radio Manual

B-903

\$18.95

A high quality reprint of Gernsback's 1935 "Complete Experimenter's Set Building and Service Guide", including a "Full directory of all short wave receivers". Contains schematics of over one hundred different commercial receivers, along with a construction section showing how to build many early short wave receiving and transmitting circuits. 240 pgs. 1.7 lbs, 8.5" x 11"

## A Family Affair- The R.L. Drake Story

By John Loughmiller, KB9AT

B-875

\$29.95

Here is the behind-the-scenes story of the famous R.L. Drake Company, focusing on the glory days, when Drake was king in amateur radio. Every ham and shortwave listener knew R.L. Drake from the outside, but now the inside story of this incredibly interesting company is told. This book also includes a huge section of useful circuits and modifications for many Drake radios. This 300 page book is both an interesting read and a great technical reference. 288 pgs. 2.1 lbs, 8.5" x 10.75"

A Family Affair



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## Buying a Used Shortwave Receiver

B-826

\$15.95

Buying a Used Shortwave Receiver can provide great savings. This book provides the information you need to intelligently select the right shortwave receiver at the right price. There is information on the 100 most commonly traded shortwave receivers, including both portable and tabletop models.

Coverage, Specs, Features, New Price, Used Price, Photographs. 78 pgs, 0.5 lb, 5.5" x 8.5"

## Communications Receivers, The Vacuum Tube ERA: 4th Edition

By Raymond S. Moore

B-771

\$19.95

Improved from edition 3 with new typesetting, new and improved pictures, extensive revisions and new information with 19 pgs added. 144 pgs. 1.2 lbs, 8.5" x 11"

## The Radio Handbook 1936- For Amateurs and Experimenters

By Frank C. Jones

B-843

\$19.95

Another terrific reprint from Lindsay Productions, this is Frank C. Jones' 1936 Radio Handbook with more project information than the 1936 ARRL Handbook. Contains schematics, diagrams, tube data, transmitter construction articles, antennas, power supplies, receiver design, etc. If you're a builder, this is for you! 360 pgs, 1.5 lb, 6" x 9"

## Radios by Hallicrafters- Revised and Expanded 2nd Edition with Price Guide

By Chuck Dachis

B-832

\$29.95

This new, complete book covers every known Hallicrafters model and accessory. A comprehensive history of the company is provided, repair methods are discussed, and all the units are pictured and listed in almost 700 photographs. Technical specifications are provided in detail for each one, along with dates of production, customer options, color and design variations, and accompanying power sources and tube types. This book is perfect for anyone interested in the history of radio use and technology and is absolutely indispensable for Hallicrafters collectors. A current price guide is included, compiled by the past two decades most avid Hallicrafters collector.

235 pgs, 2.75 lbs, 8.5" x 11"

## Transmitters Exciters & Power Amplifiers 1930-1980

By Raymond S. Moore

B-725

\$21.95

A concise guide to American made HAM radio transmitters and amplifiers of the tube era. Covers kits and commercial transmitters with their original price and list of accessories. Included is a 5 page history of the development of amateur transmitters from original power oscillator types through the later filter SSB exciters and transmitters. 144 pgs, 1.1 lbs, 8.25" x 11"

## LOUDSPEAKERS

### London Power DIY Speaker Cabinets for Musical Instrument Applications

By Kevin O'Connor

B-884

\$16.95

Speaker cabinet design is mysterious to most people, but it doesn't have to be - especially when it comes to speakers for musical instruments. Cabinet evolution is described culminating in Kevin's own designs built by London Power, based on 20+ years of experience and input from expert speaker designers. Resonant and non-resonant cabinets are explored, along with the choice of building materials, finishes, woodworking techniques, installing grill cloth, and the use of wheels and handles. Driver selection and mixing is detailed, covering driver impedance, power ratings and wiring. Dare to design bad tone right out of your life! Spiral bound 77 pgs, 1 lb, 5.5" x 8.5"





## RADIO COLLECTING

### The All-American Five Radio

By Richard McWhorter

B-906

\$21.95

Understanding and restoring transformerless radios of the 1940's, 1950's and 1960's. Begins with a description of the fundamentals of direct current and alternating current. Also included is some basic information about resistors and capacitors. Circuits are discussed in detail beginning with the simplest and progressing to those that are quite complex. When you finish this book, you should be able to read and understand all of the electronic symbols and the functionality of each radio circuit.

92 pages, 0.5 lb, 7" x 10"



### A. Atwater Kent - The Man, the Manufacturer and His Radios

By Ralph Williams & John P. Wolkonowicz, Edited by Donald O. Patterson

B-904

\$25.95

A comprehensive story of A. Atwater Kent from his return to Worcester Polytechnic Institute to his company and all of its radios. Also contains a listing with descriptions of A.K. Kent radios.

108 pages, 1.0 lbs, 8.5" x 11"



### Classic Cones - A Pictorial Reference and Value Guide for 1920's Radio Cone Speakers

By Buford and Jane Chidester

B-887

\$25.95

In the latter part of the 1920's, radio manufacturers turned their attention to designing speakers that would look attractive and blend in with the home environment as well as sound better than the horn speakers produced in the earlier part of the decade. This full color book provides photos, descriptions and current values for almost 300 different models of radio cone speakers from the 1920's. It also includes many advertisements for the speakers shown.

122 pgs 1.0 lbs, 8.5" x 11"



### Collector's Guide to Antique Radios - Sixth Edition

B-918

\$24.95

This is the most recent version of the widely read radio collector's guide. Greatly expanded, this has 320 pages containing over 10,000 radio models, 1,000 color photographs and updated values.

320 pgs, 2.4 lbs, 8.375" x 10.75"



### The Complete Guide To Antique Radios: Pre-War Consoles

By Mark V. Stein

B-852

\$29.95

This is the first and only comprehensive reference on console radios. From Admiral to Zenith, over 3,500 models are individually pictured, described and valued. Consoles listed begin with the 1929/30 production year and span through the end of production in 1942. As with the Machine Age to Jet Age series, the author has included tube and band count information and variations wherever possible. This invaluable reference also includes an expanded resource section listing dealers, collectors, publications, experts/specialists, products/suppliers, restoration services and important websites. The author also provides important information about identification, grading/valuation and historic insights.

Softbound laminate cover, B&W format 240 pgs, 1.6 lbs, 8.5" x 11"



### The Complete Guide To Antique Radios: Tabletop Radios Volume 4

By Mark V. Stein

B-912

\$29.95

Formerly Machine Age to Jet Age, this reference is comprised of all new and expanded listings not appearing in prior volumes. The total number of models now cataloged in this four-volume series is well over 12,000! The new format in this volume now includes manufacturer, model number and year, tube and band counts, color, materials and market value variations. This new volume contains 2500 new radio listings and 1500 new illustrations! B&W format

240 pgs, 1.6 lbs, 8.5" x 11"



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### A Flick of the Switch

By Morgan E. McMahon

B-305

\$11.95

A companion volume to Vintage Radio 1887-1929, this book continues with the history of radio into the beginnings of television. Over 1000 pictures. 300 pgs, 0.8 lbs, 5.25" x 8.5"

### Guide to Old Radios: Pointers, Pictures and Prices 2nd Edition

By David and Betty Johnson

B-715

\$19.95

Contains more than 3,300 listings with updated prices; organized alphabetically by manufacturers; 350 photos and illustrations which document the evolution of both radio and broadcasting; and two additional chapters on the heyday of radio. 277 pgs, 1.4 lbs, 7" x 10"

### Machine Age to Jet Age Volume 2

By Mark V. Stein

B-752

\$26.95

Volume II - 1930-1959, A supplement to Mark Stein's first book, this volume has over 350 pgs of all new listings, with 3,100 radios pictured and valued. Listings in both volumes now total over 4,000. 200 color photos. This volume is also expanded to include the years 1930 - 1932. A must for the tabletop radio collector. 358 pgs, 2.3 lbs, 8.5" x 11"

### Machine Age to Jet Age Volume 3

By Mark V. Stein

B-829

\$29.95

Volume III - 1930-1962. All new listings, with over 2,800 radios pictured and dated, with tube counts and current collector values. Listings for the 3 volumes of this excellent series now totals 7,000. 256 pgs, 1.6 lb, 8.5" x 11"

### Philco Radio: 1928-1942

By Ron Ramirez with Michael Proise

B-644

\$29.95

A comprehensive reference book on Philco, the leading radio manufacturer during radio's "Golden Age". Contains a year-by year look at the Philco radio line with specifications for each model. 200 color photographs, 200 b/w photographs and line drawings. 160 pgs, 1.5 lbs, 8.5" x 11"

### Radio-Craft 50 Years of Radio

Edited by Hugo Gernsback

B-373

\$15.95

A reprint of Gernsback's 1938 special issue of Radio-Craft magazine which commemorated the first 50 years of radio. Contains the reminiscences of radio pioneers DeForest, Sarnoff, Conrad, Crosley, McMurdo Silver and others, as well as the famous Gernsback predictions for the next 50 years. Also details the progression of the vacuum tube, mileposts in television and famous early radio circuits. Hundreds of photos. 144 pgs, 1.2 lbs

### Radio Diagram Source Book With Tube Complement Guide

By Richard Gray

B-739

\$18.95

Need a wiring diagram to repair an old radio, or help identifying a make or model number? This book introduces the collector to various sources of early service literature. Lists over 10,000 U.S. made radios with tube complement, dial lamp and IF frequency used.

269 pgs, 1.0 lb, 6" x 9"





## Radio Manufacturers of the 1920's VOL.3 RCA through Zenith

By Alan Douglas

B-567

29.95

Features the company principals and their factories, the financial ups and downs of the industry, and hundreds of pictures of radios produced up to 1930.

Over 250 pgs, Softcover. 2.0 lbs, 8.5" x 11"



## Sears Silvertone Catalogs 1930-1942

By Mark V. Stein

B-876

\$34.95

This is the first publication ever to focus on radios marketed under the Sears Silvertone brand name. Over 1000 Silvertone Radios as they originally appeared in the Sears Catalogs - Historical notes, current values, variations and manufacturer's code key also included.

240 pgs, 1.25 lbs, 8.5" x 11"



## Tabletop Radios Volume I- The Complete Price Guide to Antique Radios

By Mark V. Stein

B-900

\$27.95

Formerly Machine Age to Jet Age Vol. 1, this book has been revamped and re-named. This revised volume represents the complete contents of the original reference, plus more! Formats have been streamlined and enhanced to include tube and band counts, as well as the current values for all models and their variants. Also, newly included is a comprehensive cross reference with 2003 market values. This index encompasses listings for all radios pictured in the full three-volume series. With over 9,000 listings, this guide serves as both an excellent introduction to the series as well as an invaluable update for those who already own a copy of Machine Age to Jet Age Vol. 1.

240 pgs, 1.6 lbs, 8.5" x 11"



## Transistor Radios 1954-1968

By Norman Smith

B-801

\$29.95

Get the story on who and what shaped the radio and get ready for a nostalgic trip back to the heyday of portable music. Over 1,000 radios are featured in this book, from American manufacturers such as Admiral and Zenith and from Japanese manufacturers such as Hitachi, Realtone and Sony. All radios are identified by manufacturer, model number, number of transistors, special features, country of origin and date. A complete value guide is included to help the collectors.

160 pgs, 2 lbs, 8.5" x 11"



## Zenith Radio: The Early Years 1919-1935

By Harold Cones, PhD

B-770

\$29.95

John Bryant, AIA with Martin Blankinship and William Wade. Zenith's "The Quality Goes In Before the Name Goes On" is one of the most recognized, and well earned corporate mottos in America. With access to the Zenith corporate archives and their discovery of the long sealed files of one of Zenith's founders, the authors present for the first time the documented story of the early years of Zenith. The authors present a wealth of never before published photographs, documents and information as well as color portraits of many Zenith radios of the era. Includes a database of valuable information which covers every radio produced by the company, along with a rarity and price guide.

192 pgs, 2 lbs, 11" x 8.5"



## Zenith Radio Service Manual and Parts List

B-755

\$18.95

Re-print of early Zenith service manual. Includes schematics and parts lists for Zenith radios made from 1928 through 1939. Offers help with alignment procedures, antenna alignment, and gives parts lists along with tube layouts on most models. 510 pgs, 2.6 lbs, 8.5" x 11"



# RADIO



## Zenith Radio, The Glory Years. 1936-1945: History and Products

By Harold Cones, Ph.D., John H. Bryant, FAIA, & Martin Blankinship B-908 \$34.95

History and Product begins with an exploration of the history of the corporation from 1936-1945 in a thoroughly researched and illustrated way. It continues with color photographic portraits of outstanding examples of many of the products manufactured by Zenith in this period, providing a visual survey of the wide range of Zenith radios produced during the Glory Years.

180 color & 183 b/w photos 256 pgs, 2.4 lbs, 11" x 8.5"



## Zenith Radio, The Glory Years. 1936-1945: Illustrated Catalog and Database

By Harold Cones, Ph.D., John H. Bryant, FAIA, & Martin Blankinship B-909 \$29.95

The Illustrated Catalog and Database includes a catalog that gathers the most complete collection of Zenith images ever published, followed by a Database which is the most complete listing of Zenith products. In addition, appendices to this volume include Commander Eugene MacDonald's Presidential speeches, information on telepathy experiments at Zenith, Zenith in the movies, and Zenith Annual Reports from 1936-1946. 520 b/w images. 182 pgs, 1.7 lbs, 11" x 8.5"



## The Zenith Trans-Oceanic

By John H. Bryant, AIA and Harold N. Cones, Ph.D. B-689 \$24.95

The Royalty of Radios. The definitive book of perhaps the most popular radio produced during the first 50 years of radio. Complete history as well as collecting and restoration hints. Full of pictures, many in color. 160 pgs, 1.7 lbs, 8.5" x 11"



## TECHNICAL

### Antique Radio Restoration Guide 2nd Edition

B-627 \$17.95

Teaches basic technique for troubleshooting and repairing old radios, refinishing cabinets, and following necessary safety precautions. Also contains useful information such as sources for parts, schematics, a glossary of terms and more. 160 pgs, well illustrated. 1.0 lb, 7" x 10"



### Atwater Kent Radio Service Manual

B-356 \$13.50

A reprint of the 1928 A.K. factory service manual, covering models 10, 10B, 12, 20, 20C, 30, 32, 33, 35, 36, 37, 38, 40, 42, 44, 48, 49, 50 and 52. Spiral bound. 98 pgs, 0.8 lb, 9" x 11"



### Atwater Kent Radio Parts List

B-357 \$12.50

A companion book to the 1928 A.K. Service Manual (B-356), this reprint shows chassis views and parts identification for all the models listed above. Spiral bound. 64 pgs, 0.5 lb 9" x 11"



### Atwater Kent Radio:

Electrical Values of Resistors & Condensers - While Supplies Last! B-574 \$7.75

Reprint of 1932 Atwater Kent special service manual gives values for resistors and condensers used in every receiver up to 1933. This hard-to-find information is normally not given on Riders or original A.K. schematics. Values may be looked up by A.K. part number or radio model number.

24 pgs, 0.1 lb, 8.5" x 11"

Set of All Three Atwater Kent Books (listed above)

B-AKSET \$29.95

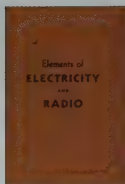
Includes: B-356, B-357 & B-574. Save over 10%!

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## Elements of Electricity and Radio

B-758

\$6.95

Re-print of the original basic electricity and electronics course from the US Navy. Has chapters on mathematical principals (everyone's favorite!), to elementary definitions and Ohm's Law, to applications of vacuum tubes. Also has commonly used charts and tables. If you're interested in electronics, but need to start at the beginning, this book is for you. Great WW II stuff; over 50 years old, but still good info. 205 pgs, 0.7 lbs, 6" x 9"



## The Impoverished Radio Experimenter Volume 1

B-861

\$5.95

Contains tricks, tips and secrets to help the builder of simple radios and electrical gear achieve high performance at minimal cost. Also: vacuum tube substitutions; inexpensive tube power supplies; grid leak detectors; regenerative receivers and more. 48 pgs, .25 lb, 5.5" x 8.5"



## The Impoverished Radio Experimenter Volume 2

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Contains tricks, tips and secrets to help the builder of simple radios and electrical gear achieve high performance at minimal cost. Build a grid dip oscillator, a shortwave converter, a slow motion dial drive, space-wound coils and more! 48 pgs, .25 lb, 5.5" x 8.5"



## The Impoverished Radio Experimenter Volume 3

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Contains tricks, tips and secrets to help the builder of simple radios and electrical gear achieve high performance at minimal cost. Build and Impedance Bridge, a one-tube SW receiver, a headphone amplifier, old-time radio cases and more! 48 pgs, .25 lb, 5.5" x 8.5"



## The Impoverished Radio Experimenter Volume 4

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## The Impoverished Radio Experimenter Volume 5

B-914

\$6.95

Contains tricks, tips and secrets to help the builder of simple radios and electrical gear achieve high performance at minimal cost. Discover how to build components and to test equipment with detailed information on short-wave radio frequency tuning, vacuum tubes, crystal sets and other simple technologies. Build your own superhet receiver, coil winding machine, simple alignment oscillator or IF transformer. 48 pgs, .15 lb, 5.5" x 8.5"



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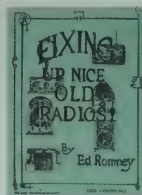
## Fixing Up Nice Old Radios!

By Ed Romney

B-549

\$34.95

Easy to understand guide to antique radio repair covers everything from crystal sets to the Scott 800B! Uses photos of the insides of popular collectible sets to cover actual repair jobs in detail. Includes AK, Zenith, Bosch, Scott, National, Hallicrafters, Crosley 50, Radiola III, 17, 25, R-28, Philco and others. Explains Wunderlich, AVC, crystal filters, Scott and Zenith push-buttons and band-switches, alignment and more. 170 pgs, 1.2 lbs, 8.5" x 11" Spiral Bound



## How to Build the Twinplex Regenerative Receiver

By T.J. Lindsay

B-791

\$7.95

You can build the 1934 classic Doerle Twinplex, a single tube regenerative receiver powered by batteries! Simple, stable, sensitive and inexpensive. Great project for beginners or those who remember the joy of making their own radios. Includes designs for two other Twinplex receivers, one tube and one solid state. 63 pgs, 1.0 lbs, 5.5" x 8.5"



## How to Build Your First Vacuum Tube Regenerative Receiver

By T.J. Lindsay

B-774

\$9.95

This book will coach you through building your first regenerative receiver. Learn the practical aspects of finding old components and using them toward your goal of building your own little radio. The set described is a real working receiver that was built from salvaged material on hand.

127 pgs, 0.5 lbs, 5.5" x 8.5"



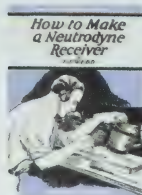
## How to Make a Neutrodyne Receiver

By F.F. Webb

B-763

\$6.95

Re-print of a 1925 book which shows you how to build a radio like those used before the superheterodyne days. 12 chapters cover topics such as advantages of neutrodyne, description of a neutrodyne set, vacuum tubes used, how to build the neutroformer, neutralizing condensers, neutralizing the set, antenna for set, operating and troubleshooting. Information can be used to build a set from scratch or to help you restore an original. 59 pgs, 0.5 lbs, 5" x 7"



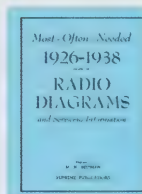
## Most Often Needed 1926-1938 Diagrams

B-307

\$18.95

A reprint of Morris Beitman's Supreme Publications book, showing circuit diagrams for 600 of the most commonly found radios of that time. A valuable resource for restorations.

240 pgs, 1.4 lbs, 8.5" x 11"



## Old Time Radios! Restoration and Repair

By Joseph J. Carr

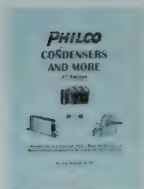
B-570

\$19.95

A well-written book on the history, theory and practical operation of old-time radio sets, with detailed instructions on how to repair them. Included is information on how vacuum tubes work, radio troubleshooting, alignment, test equipment, and repairing water damage.

256 pgs, 1.0 lb, 7.25" x 9"





## Philco Condensers and More

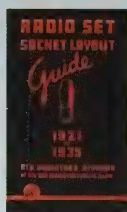
By Ray Bintliff W1RY

B-830

\$17.95

Provides detailed data for Philco Bakelite block condensers, metal-cased condensers and tone controls. Pictorial guides show electrical connections and capacitor values.

More than 300 illustrations. 68 pgs 0.4 lb, 8.75" x 11"



## Radio Set Socket Layout Guide 1921 to 1935

B-624

\$9.95

This reprint of a 1935 RCA publication shows tube complement, chassis layout and date of manufacture for thousands of radios produced by over 100 different manufacturers. It also contains a tube data chart and base diagrams for RCA receiving tubes. It is very useful for identifying unknown model numbers or determining which tubes belong in a set. 256 pgs, 0.9 lb, 5" x 8.25"



## Radio, Wireless Telephone and Wireless Telegraph Equipment

B-697

\$1.95

High quality reprint of early (1920's) Montgomery Ward catalog of "wireless" equipment. 32 pgs of radios, kits, tubes and books as available 70 years ago. Sorry, you can't order from this catalog!

0.2 lbs, 7" x 9.5"



## RCA Radiolas, Radiotrons, and Accessories

B-K15

\$1.95

A reprint of 1925 RCA promotional literature. 20 pgs of pictures and information on models 30, Super VIII, 28, 26, 25, 20, III, and IIIA receivers and loudspeakers #100, 102, 104 and UZ-1325.

20 pgs, 0.2 lb, 4.75" x 7.5"

## Radiola Instruction Manuals

Reprints of the RCA instruction manuals, covering installation and operation of the Radiola III series units. 0.2 lb. each 5.5" x 8.5" each

Radiola III 15 pgs

B-321

\$4.95

Radiola III-A 15 pgs

B-344

4.95



## Ready Set Go! An Electronics Reference for the Everyman

By Kevin O'Connor

B-821

\$24.95

A handy reference for the novice electronic tinkerer and experienced craftsman alike. Informative and easy to read, the book explains: how to read schematic symbols; explains standard notation, S.I. symbols and tolerances; reveals the resistor color code; lists standard resistor values for 1%, 5%, 10% and 20% components; lists standard capacitor values and explains the color coding of vintage caps; explains current, voltage, power, resistance, capacitance and inductance; explains Ohm's Law and how to figure out series/parallel resistance. Transformers and impedance are clearly explained. Examples are worked out throughout the book to illustrate how truly simple basic electronics is!

Spiral bound. 84 pgs, 2 lbs, 9" x 11"



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**Rider 1947 Master Index to Perpetual Troubleshooter Manuals** B-331 \$21.95  
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**Rider Complete Index to Perpetual Trouble Shooter Manuals** B-347 \$8.95  
Covers volumes XVI through XXII. 48 pgs, 0.5 lb, 8.5" x 11"

### Secrets of Homebuilt Regenerative Receivers

By C.F. "Rock" Rocky B-742 \$9.95  
Discover the secrets of building regenerative shortwave receivers. These incredibly simple radios will amaze you with their unbelievable ability to pull in signals from every country on earth. All the secrets are here! 127 pgs, 0.8 lb, 5.5" x 8.5"

### Operators and Organizational Maintenance Manual for TV-7/U, TV-7A/U, TV-7B/U, and TV-7D/U Tube Testers

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Reprint includes introduction and general description of tester, operating instructions, maintenance instructions and even instructions for demolition to prevent enemy use! Spiral bound. 44 pgs, 0.3 lbs, 8.5" x 11"

### Test Data for TV-7/U Tube Tester

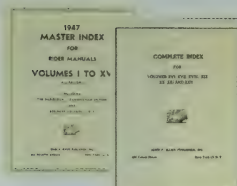
B-546 \$9.95  
High quality reprint of the test set-up manual for the military TV-7/U, TV-7A/U, TV-7B/U, and TV-7D/U versions of Hickock tube testers, normally supplied in the lid of the tester. Also contains operating instructions, conversion table for Army VT numbers, and data table for CV type tubes. 83 pgs, 0.4 lb, 6.75" x 5.25"

### Thordarson Transformer Manual

B-864 \$11.95  
This is a reprint of Thordarson's Sound Amplifier Manual No. 346-A, Serviceman's Guide 342-A, Radio Servicing Guide 342-B, Complete Transformer Guide 400, and TruFidelity Transformer Catalog 500. 144 pgs, 1.5 lbs, 8.5" x 11"

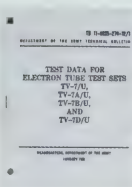
### Tube Testers and Classic Electronic Gear

By Alan Douglas B-853 \$25.95  
Provides an overview of pre-1970 (the vacuum tube era) radio test equipment. It begins with an extensive discussion of tube testing and use of testers, and progresses into curve tracing. The different types of testers are compared; emission, dynamic and mutual conductance, and testers from 23 different manufacturers are tabulated and pictured. Also covers VOMs, VTVMs, Q Meters, Grid Dip Meters, Capacitance and Inductance Bridges, Signal Generators, Signal Tracers and Oscilloscopes. It includes brief company histories of the manufacturers. Useful for radio collectors, vacuum tube enthusiasts and historians. Over 300 photos and illustrations. 172 pgs, 1.3 lbs, 8.5" x 11"



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(REPRINT OF THE ARMY TROUBLESHOOTER MANUAL)

TEST SET-UP MANUAL FOR THE MILITARY TV-7/U, TV-7A/U, TV-7B/U, AND TV-7D/U



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103





## The Weekend Refinisher

By Bruce Johnson

B-645

\$14.95

Easy-to-follow guide teaches the basics of wood repair and finish restoration. Learn how to repair scratches, veneer chips, fill small holes, raise dents, remove water damage, identify and revive various finishes and more. 295 pgs, 1.0 lb, 7.25" x 9.25"

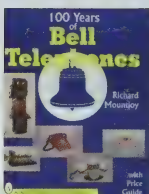


## Zenith Radio Service Manual and Parts List

B-755

\$18.95

Re-print of early Zenith service manual. Includes schematics and parts lists for Zenith radios made from 1928 through 1939. Offers help with alignment procedures, antenna alignment, and gives parts lists along with tube layouts on most models. 510 pages, 2.6 lbs.



## TELEPHONES

### 100 Years of Bell Telephones

By Richard Mountjoy

B-730

\$29.95

From the Coffin sets of the 1870's to the Princess phones of the 1960's and beyond, this book explores the technology and the history of the telephone. Because the Bell Company was the sole source for much telephone technology until very recently, much of the public access to this information has been quite limited. This definitive work will end much uncertainty by providing a vast amount of information never before published. Design changes are carefully chronicled with 350 color photographs. For those who are restoring a telephone and would like to ensure its historical accuracy, this book will make it easy to match pieces correctly. 175 pgs, 1.9 lbs, 8.5" x 11"



## VACUUM TUBES

### The Ballast Tube Handbook

By A.P. Jacobi

B-573

\$10.95

A comprehensive collection of ballast tube data, newly revised and expanded to include a 53 page section on ballast tube substitutions. Lists over 4000 tube numbers. 120 pgs, 0.9 lb, 8.5" x 10.75"



### Collector's Vacuum Tube Handbook Volume 1

By Robert T. Millard

B-883

\$25.95

This book contains hard-to-find electrical data on nearly 200 tube types that pre-date the RMA (Radio Manufacturers Association) standardized numbering system, which was initiated in 1934. It includes basing diagrams, photos of tubes and boxes, and brief developmental histories of each. Western Electric, DeForest, Arcturus, Cunningham, GE, Westinghouse, Philco, Speed, Ken-Rad, Sparton, Cardon, Daven, McCullough, and others are among brands covered. 196 pgs, 1.2 lbs, 7" x 10"



### Electron Tube Locator

By George H. Fathauer

B-662

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A comprehensive listing of receiving, transmitting and industrial tube types manufactured in the U.S. and Europe with references to sources of complete data. Includes tube functions, filament/heater characteristics and basing diagrams. Lists approximately 12,000 different tube types. Contains over 300 pgs of data and diagrams. 326 pgs, 1.5 lbs, 8.5" x 11"



# VACUUM TUBE

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## Electron Tube Resume

By George H. Fathauer

B-672

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An abridged version of the "Electron Tube Locator" (B-662) covering the designation system used by major tube manufacturers in the U.S. and Europe. Includes equivalent tables for U.S. VT types and early Navy types. 30 pgs, 0.3 lb, 5.5" x 8.5"

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## G.E. - Essential Characteristics

B-377

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The 1973 edition of G.E.'s tube data book, giving all the characteristics starting with 00A and 01A. Includes foreign to American tube interchangeability chart, industrial/military cross reference, picture tube data and basing diagrams. Also entertainment semiconductors. 473 pgs, 1.3 lbs, 5.5" x 8.5"

## Inside the Vacuum Tube

By John F. Rider

B-916

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This is one of the most comprehensive books ever written about the functions of vacuum tubes. Combining concise writing, real world analogies and illustrations of key concepts, this book is invaluable for those interested in learning about vacuum tubes. 407 pgs, 4.375" x 8.25"

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By Herbert J. Reich

B-693

\$34.95

First appeared in 1941 as a textbook for beginners studying tube technology. Includes physical concepts, thermionic emission, grid controlled high vacuum tubes, circuit analysis, amplifier design and much more. A must for any library. 398 pgs, 1.5 lbs, 6" x 9"

## Radio Tube Manual

B-337

\$5.95

Reprint of early manual giving data and basing diagrams on tubes from 00A through octals and loctals. Includes types BA and BH, Sparton 182B and 183, and 2 pgs on early Western Electric types. 35 pgs, 0.3 lb, 5.25" x 8.5"

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By George A. Fathauer

B-824

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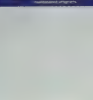
George Fathauer captures the excitement and intrigue of that first decade of home radio through a pictorial presentation of the radio tubes of the era. With over 400 photos and illustrations of early tubes, it shows the colorful packaging and sometimes unusual construction features employed by tube makers to market their products to the public. Collectors and historians alike will appreciate this entertaining way of revisiting the early days of the electronics industry in the United States. 105 pgs, 1 lb, 5.25" x 8.25"

ELECTRON TUBE  
RESUME



GETTING THE MOST OUT OF  
VACUUM  
TUBES

By Robert B. Torner



Essential  
Characteristics



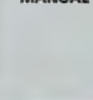
Inside The  
Vacuum Tube



HERBERT J. REICH  
PRINCIPLES OF  
ELECTRON TUBES



RADIO TUBE  
MANUAL



Radio Tubes and Boxes  
of the 1920's



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105



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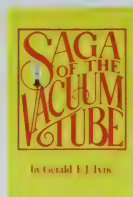


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B-822

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A high quality reprint of the 1973 RCA Receiving Tube Manual (Technical Series RC-30). Includes tubes not found in RC-19, for example: 6CA7/EL34, 5AR4/GZ34, 6DJ8, 6DN7, 6LF6, 6KG6A/EL509, 6550, 7189, 7591 and the 7868 to name a few. Also includes pictures and industrial receiving tubes. 760 pgs, 2.0 lbs, 5.25" x 8.25"



### Saga of the Vacuum Tube

By Gerald F.J. Tyne

B-376

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The most comprehensive history of the thermionic vacuum tube. Contains hundreds of photos and essential facts to assist in identifying tubes made prior to 1930, and traces the evolution of tube development with histories of the manufacturers. Truly a classic! 494 pgs, 1.4 lbs, 5.5" x 8.5"



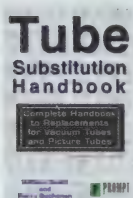
### Tube Lore: A Reference for Users and Collectors

By Ludwell Sibley

B-748

\$19.95

For the serious tube enthusiast: a collection of tech data, history of design trends, notes on equivalents, stocking-up hints, "where-used" information, etc. Describes regular grided tubes used in radios, audio amplifiers, and communications gear, plus the unique types in radar and other special applications. Includes 30 page chapter on Western Electric. Has material unavailable in conventional tube manuals: hints on identifying, dating, testing, reactivating, etc. Does not have detailed specs or curves. 186 pgs, 1.0 lbs, 8.5" x 11"



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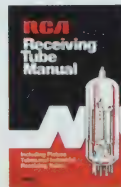
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# VACUUM TUBE VALLEY

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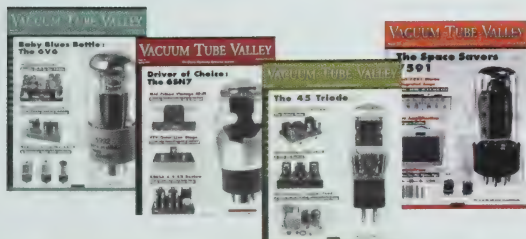
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### Tube CAD

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The tube voltage amplifier design program for Windows 3.1/95/98/NT/XP. This program covers 13 core tube circuit topologies, each divided into four variations. Thus, Tube CAD covers 52 tube circuits in all. All the popular circuits are here: SRPP, cascode, cathode follower, push-pull, split load phase splitter... Circuit variables (such as tube type, B+ voltage, plate and cathode resistor values) are entered in field boxes and the AC and DC results are then displayed. Tube CAD includes data for 32 triode tube types. Plus define characteristics for any triode not included in the library. Display and print the curves of tube types included with the program. Includes user manual. CD ROM

### Crystal Set Design Calculator

B-CD004 \$28.95

For Windows 95/98/2000/ME or later

This is the first complete revision and update on Crystal Set design and theory in over 80 years! When reliable valve wireless first appeared virtually all research work on crystal sets ceased. Much of the existing theory then was also incorrect or incomplete. This CD takes crystal radio into the world of today!

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- Over 200 designs that outperform in sensitivity and selectivity
- Lots of proven design alternatives to try

### RCA HB-3 Tube Handbook

B-CD041 \$80.00

The most complete tube manual ever produced. 10 volumes of every kind of tube imaginable with almost 7,000 pgs of detailed information not available elsewhere! Consists of Cathode Ray Tubes, Monoscope Tubes, Thyratons, Ignitrons, Glow-Discharge Tubes, Receiving Tubes-Industrial Types, Receiving Tubes Regular Types, Semiconductor Devices, Miscellaneous Tube Types (ie, Klystron, others), and Transmitting Tubes. All on a single CD-ROM designed to be easy to use. Requires Windows 95 or Windows NT running on a personal computer. If you had this 10 volume manual printed at 5 cents a page, it would cost over \$325 just for copying. This is the reference that you have been waiting for - the most comprehensive, most detailed technical manual ever produced for Tubes - brought to you by Radio Era Archives.



**SOFTWARE**

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**Interested in repair, service or in parts we don't carry?** Listed below are some of the folks we call when we need help. However, please use this list as a reference, not as an endorsement or recommendation. Use good business sense with dealing with anyone. Yes, that includes us! Much as we'd like to offer technical advice and service, we just don't have the time or resources. Please utilize these or other folks for your design and technical needs. You can also check our website at [www.tubesandmore.com](http://www.tubesandmore.com) for technical notes.

## REPAIRS AND SERVICES

### Antique Radio

- Charles DeFir** (Arizona)  
480/610.8495  
[charliedefir@cableaz.com](mailto:charliedefir@cableaz.com)
- John Hartman** (New Hampshire)  
603/447.4821  
[nm1h@hotmail.com](mailto:nm1h@hotmail.com)
- R & H Technical Services** (Mississippi)  
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- South Bay Radio** (New York)  
315/699.7341
- Barney Wooters** (Colorado)  
330/770.5314

### Cabinet Restoration

- Toppo Restorations** (Arizona)  
602/439.3556  
[lynntoppo@cox.net](mailto:lynntoppo@cox.net)

### Cabinet Restoration, Radio Repair

- Ken Krol** (Arizona)  
602/604.8853  
[djkrol@earthlink.net](mailto:djkrol@earthlink.net)

### Car Radio

- Bob's Radio and Television** (California)  
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[www.bobsradio.com](http://www.bobsradio.com)
- Gene Edwards** (Tennessee)  
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[edawrds@msn.com](mailto:edawrds@msn.com)
- Ray's Auto Stereo** (California)  
916/447.9753  
[raysautostereo@sbcglobal.net](mailto:raysautostereo@sbcglobal.net)

### European Radios

- Audio Imports LTD** (California)  
626/447.3117  
[audioimports1td@aol.com](mailto:audioimports1td@aol.com)
- Bavarian Radio Works** (Massachusetts)  
781/447.9104  
[bavarianradio@comcast.net](mailto:bavarianradio@comcast.net)

### Guitar Amp Repair

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480/461.3194  
[mtroniks@mtroniks.com](mailto:mtroniks@mtroniks.com)
- Nashville Amplifier Service** (Tennessee)  
615/591.7556  
[www.ampprepair.com](http://www.ampprepair.com)
- New York Music Repair** (New York)  
631/385.1039
- Old Town Music** (Oregon)  
503/295.6808
- Uncle Spot** (California)  
Ron Veil  
209/578.2990

### Guitar Amp Repair (continued)

- Skip Simmons Amp Repair** (California)  
707/678.5705  
[www.skipsimmonsamps.com](http://www.skipsimmonsamps.com)
- Tonecraft Amp Repair** (Texas)  
512/467.9600

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- Sounds Great Enterprises** (Georgia)  
Joe Risher  
770/413.0373

### Hi-Fi, Antique Radio

- Mike Zuccaro** (California)  
858/271.8294  
[mjzuccaro@aol.com](mailto:mjzuccaro@aol.com)

### Tube Audio Repair & Sales

- DeWick Repairs** (Tennessee)  
[www.mcintoshaudio.com](http://www.mcintoshaudio.com)

### Older Television and Radio Repair

- John Horvath** (Ohio)  
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### Old Telephone Parts and Repairs

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608/582.4124  
[www.phonecoinc.com](http://www.phonecoinc.com)

### Philco Predicta

- David Weddington** (Tennessee)  
615/890.7498  
[predicta@usit.net](mailto:predicta@usit.net)  
[www.50spredicta.com](http://www.50spredicta.com)

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205/403.6243  
[hankspkr@charter.net](mailto:hankspkr@charter.net)

### Transistor Radio Cosmetic Restoration

- Eric Wrobbel** (California)  
818/884.2282  
[eric@ericwrobbel.com](mailto:eric@ericwrobbel.com)

### Tube Hi-Fi Repair, Design, Construction

- Don Allen** (Arizona)  
602/955.9137  
[doninphx@aol.com](mailto:doninphx@aol.com)

### Tube & Transistor Hi-Fi Repair

- Entropy LTD** (Arizona)  
Julius Berk  
520/825.0736  
[jlberky@yahoo.com](mailto:jlberky@yahoo.com)

### Vintage Turntable Repair & Sales

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[dials@juno.com](mailto:dials@juno.com)

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[www.manualman.com](http://www.manualman.com)

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[www.west-techservices.com](http://www.west-techservices.com)
- Vintage Electronics** (Mississippi)  
601/264.4755  
601/264.0226 (fax)  
[phonoed@aol.com](mailto:phonoed@aol.com)

### Voice of Music- Repair Parts & Record Changer Sales

- V-M Audio Enthusiasts** (Michigan)  
248/478.0990 (evenings & weekends)  
[www.thevoiceofmusic.com](http://www.thevoiceofmusic.com)



# REFERENCES

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Front printed.

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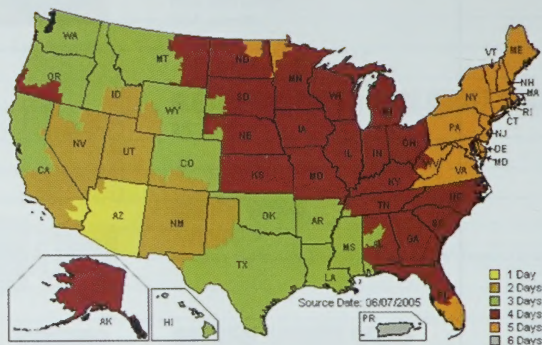
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STATE	Arizona	So. Cal NM, UT	N. Cal NE, NV, OK, MT, CO, WY	AR, IA, ID KS, LA, MN, MO, MS, ND, OR, SD, WA, TX	AL, GA, IL, IN, KY, MI, OH, TN, WI, WV	CT, DC, DE, FL, MA, ME, MD, NC, NH, PA, NJ, NY, RI, SC, VA, VT	AK, HI Puerto Rico, Priority Mail
<b>Weight (lbs)</b>							
0-1	\$5.12	\$7.21	\$5.48	\$7.69	\$5.75	\$7.86	\$3.85
2-3	5.20	7.57	6.14	8.48	6.65	9.12	8.55
4-6	5.64	7.79	6.85	9.21	7.49	10.09	12.30
7-9	6.19	8.42	7.31	9.79	8.38	11.34	17.50
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Ground rates are based on your location relative to Antique Electronic Supply



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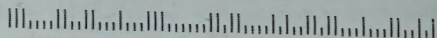
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